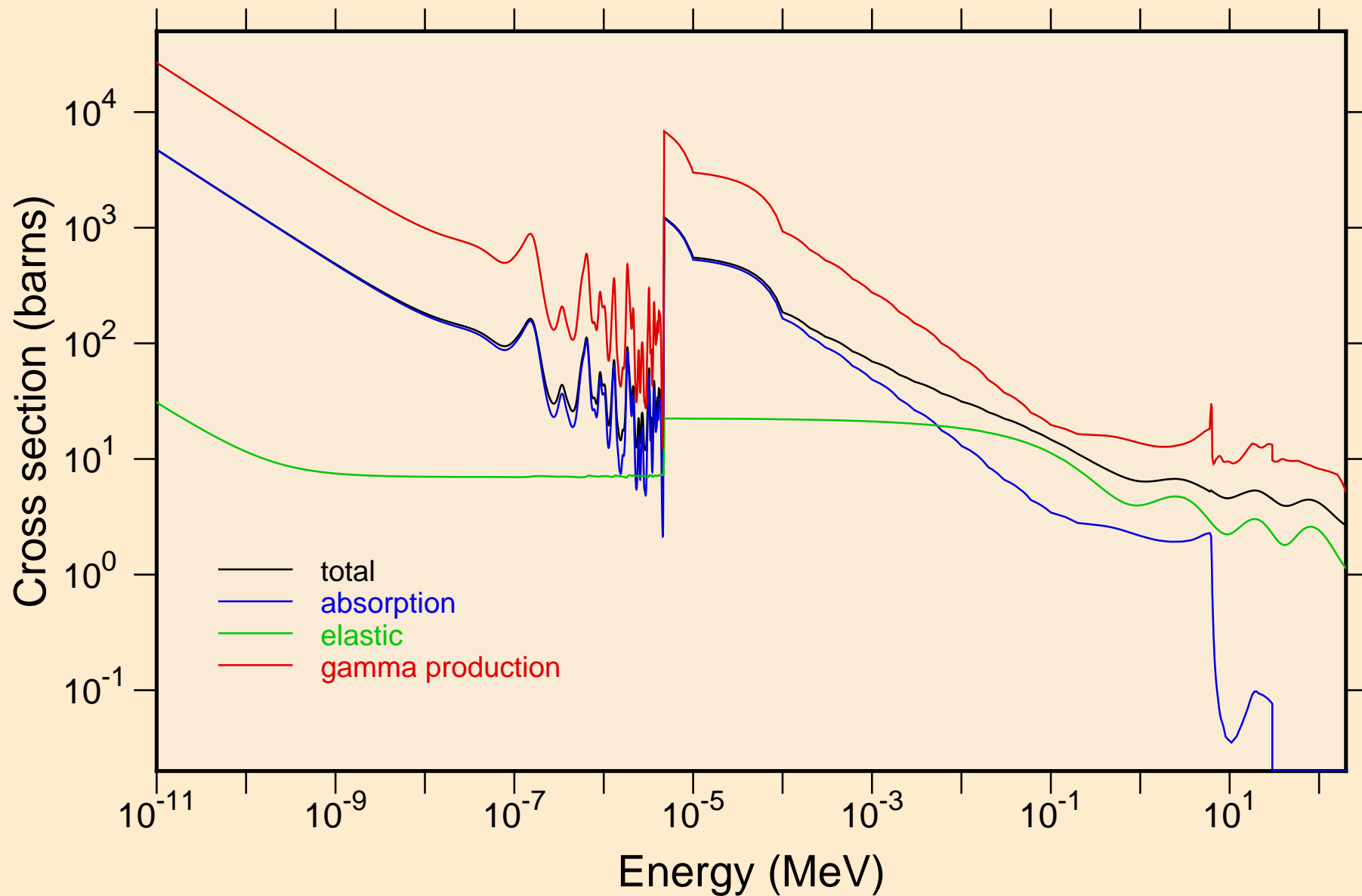
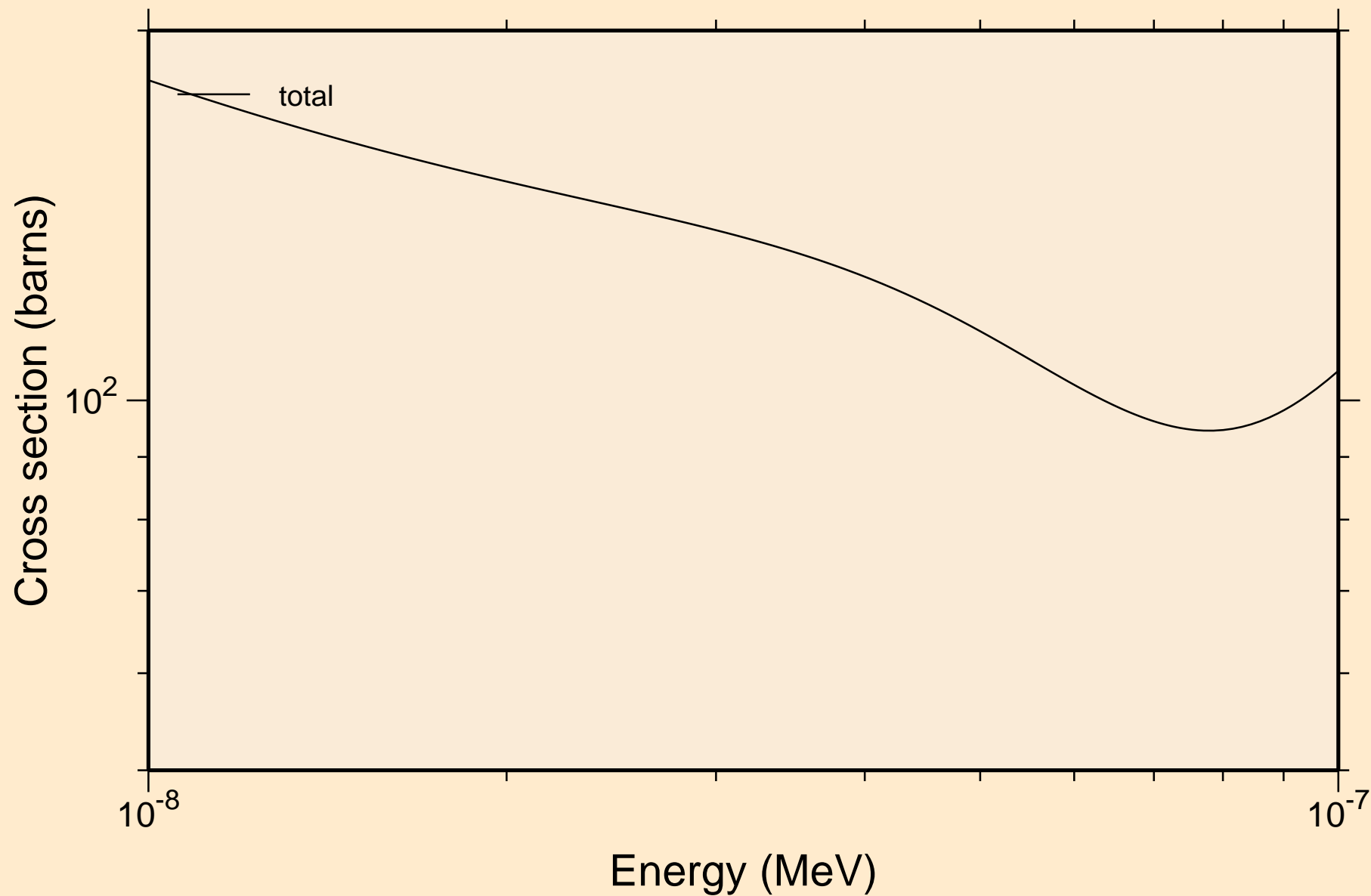


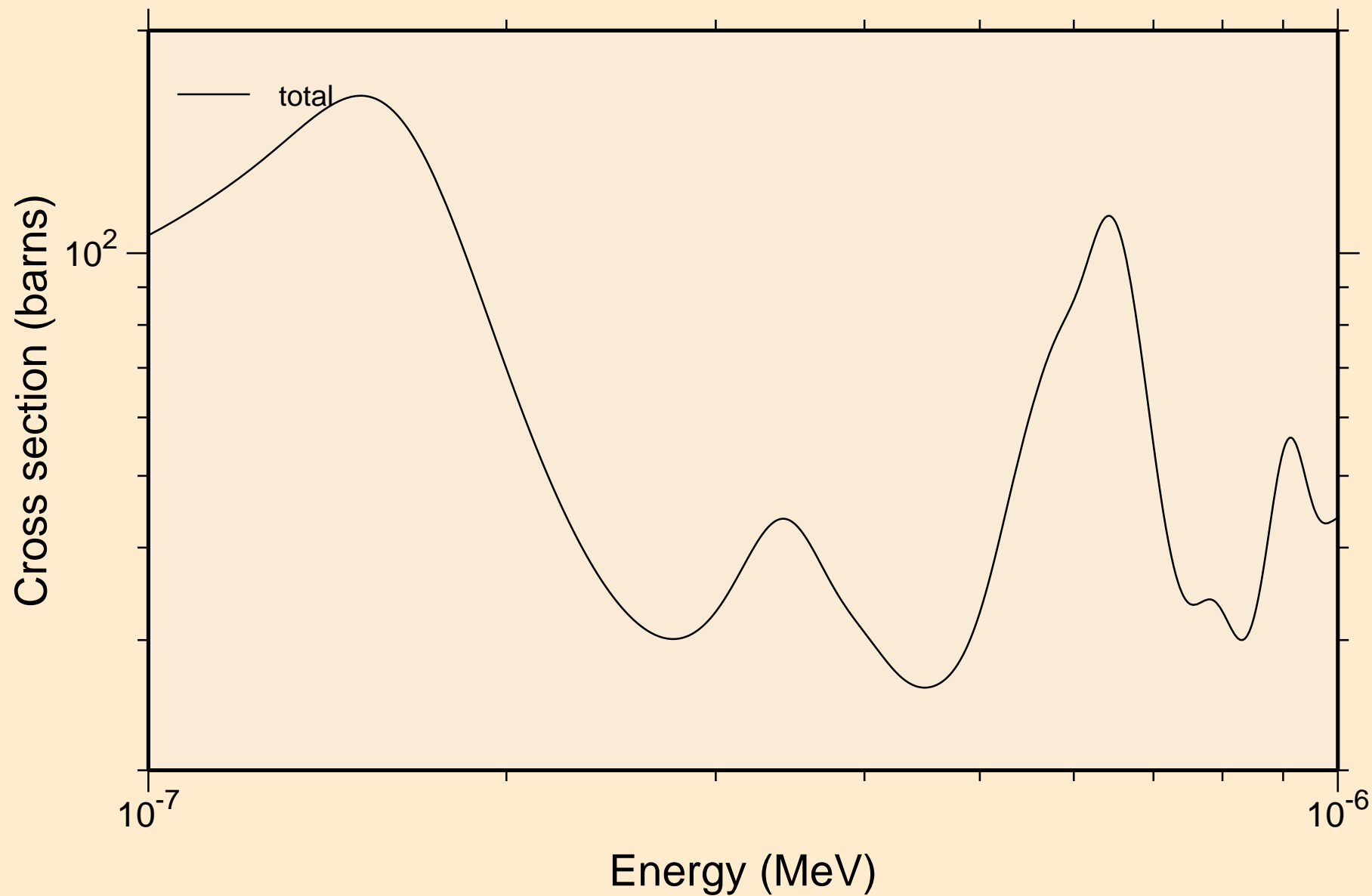
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



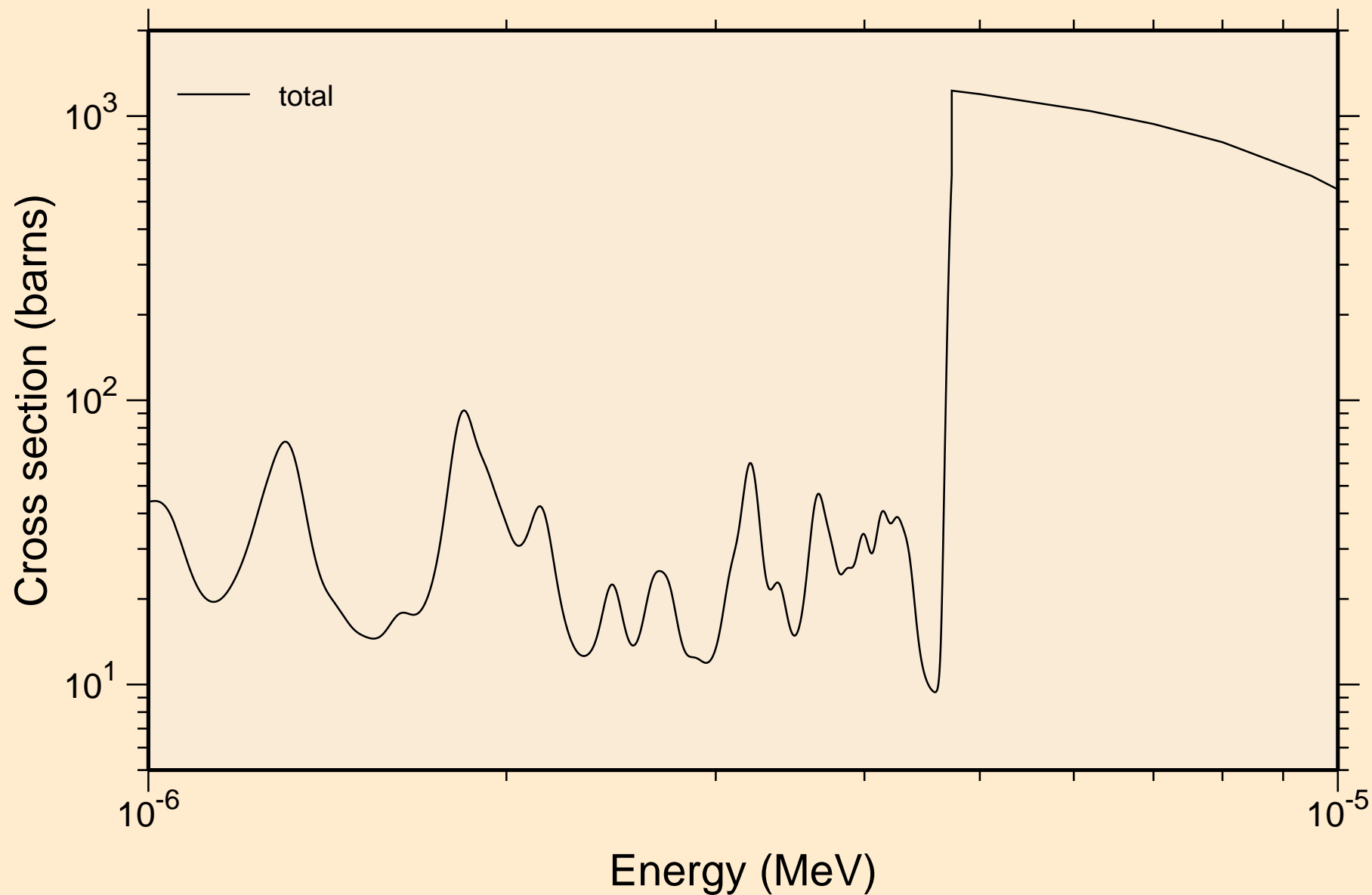
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



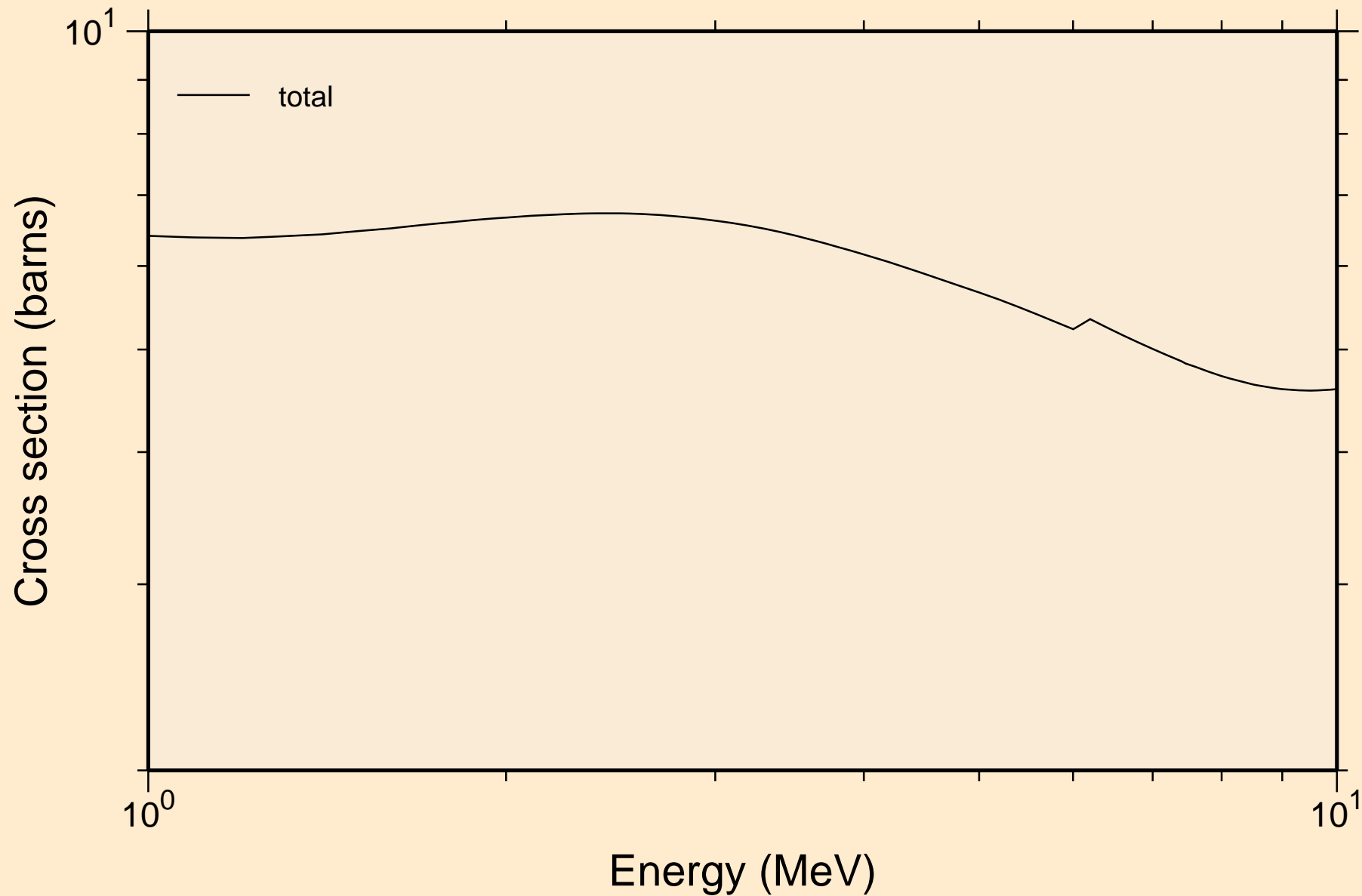
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resonance total cross section



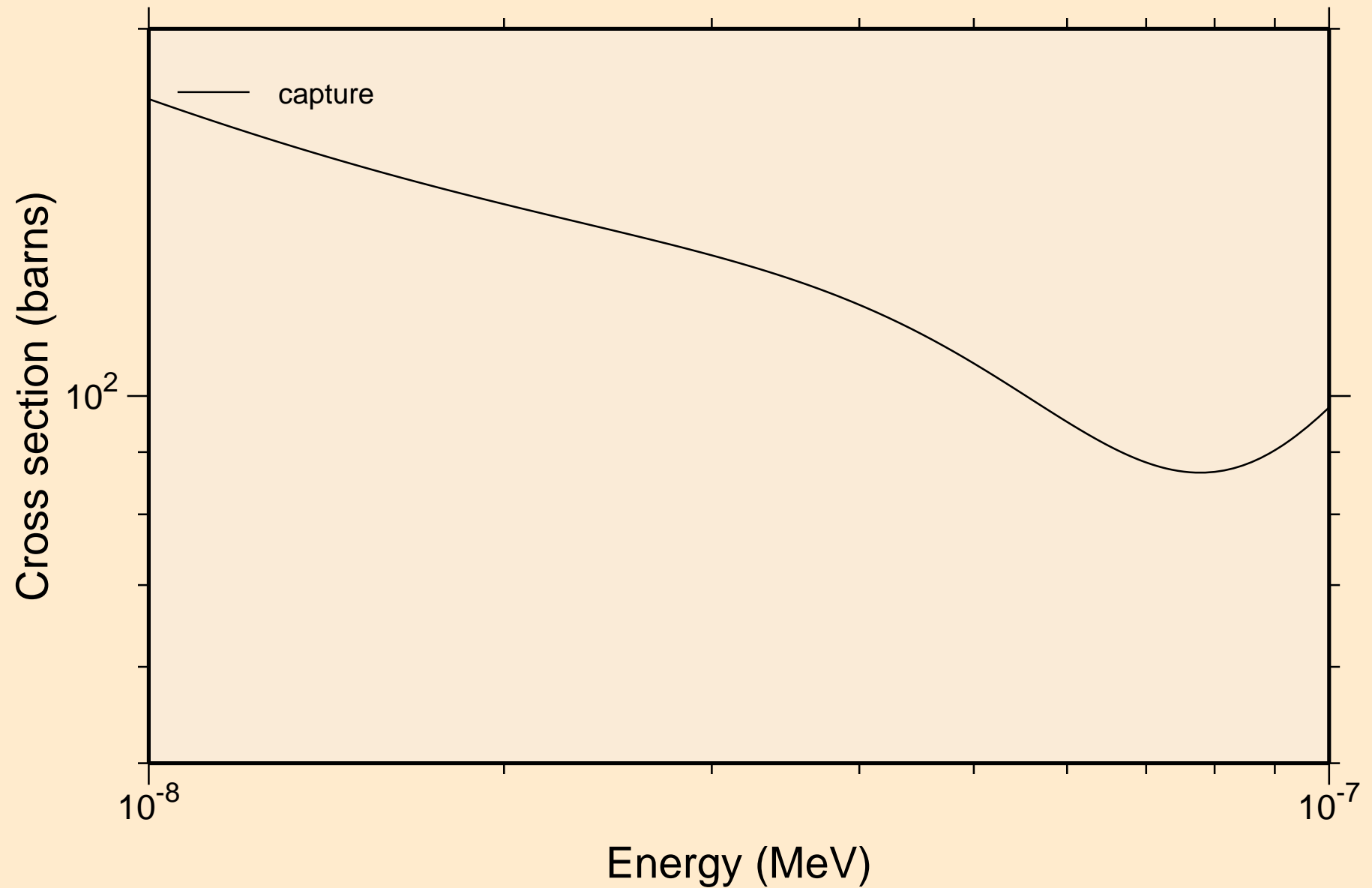
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



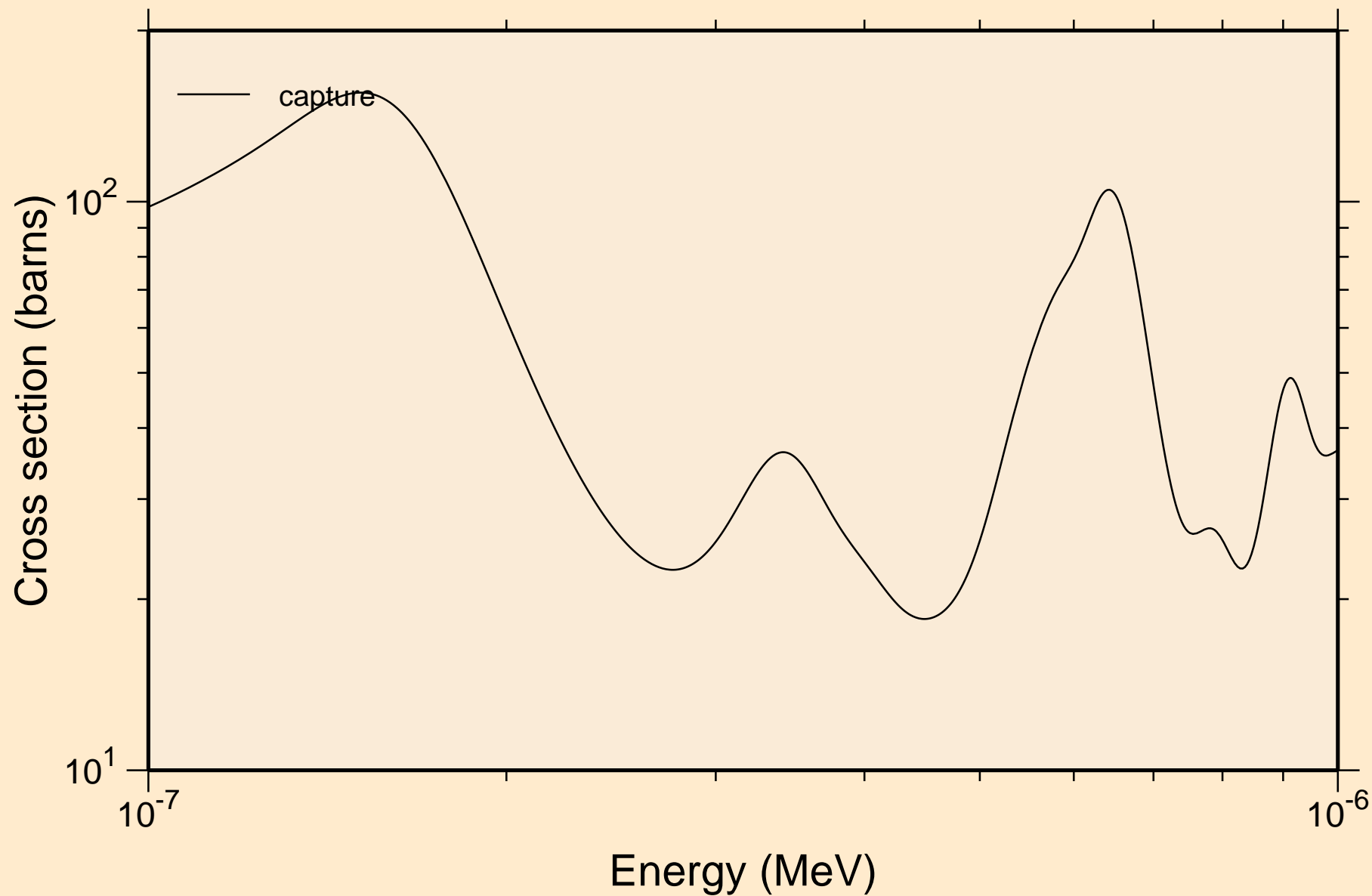
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



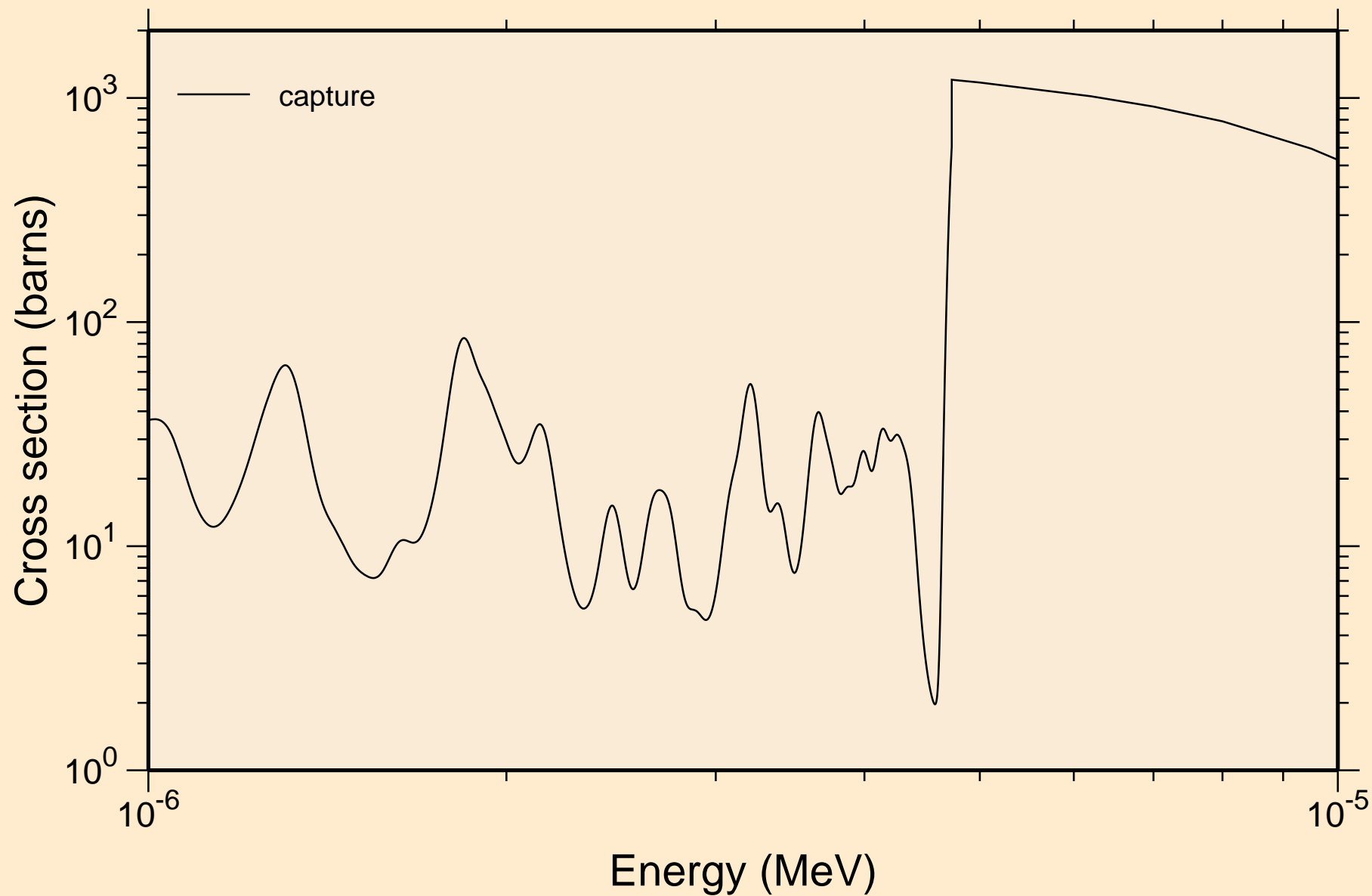
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

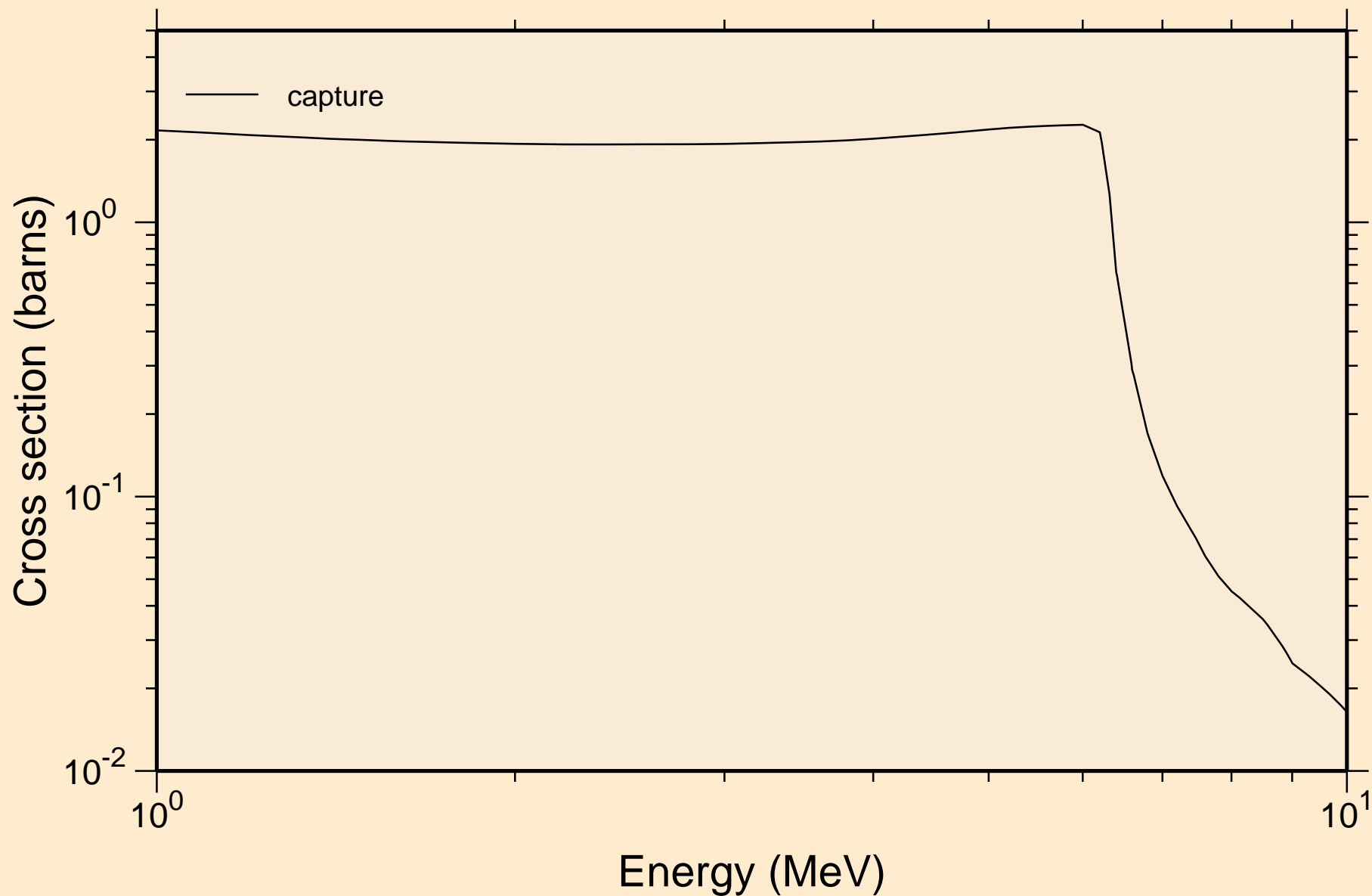


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

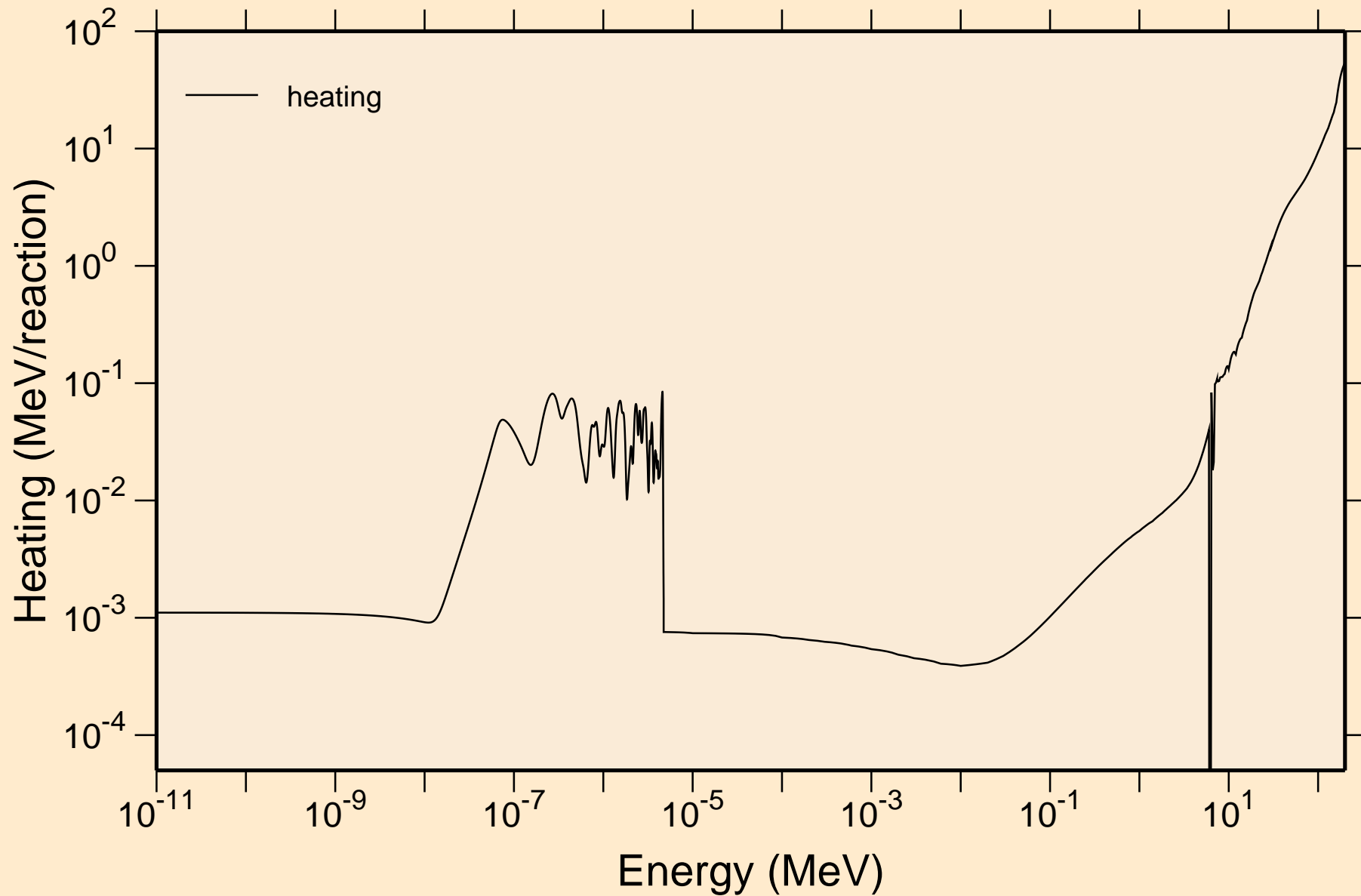




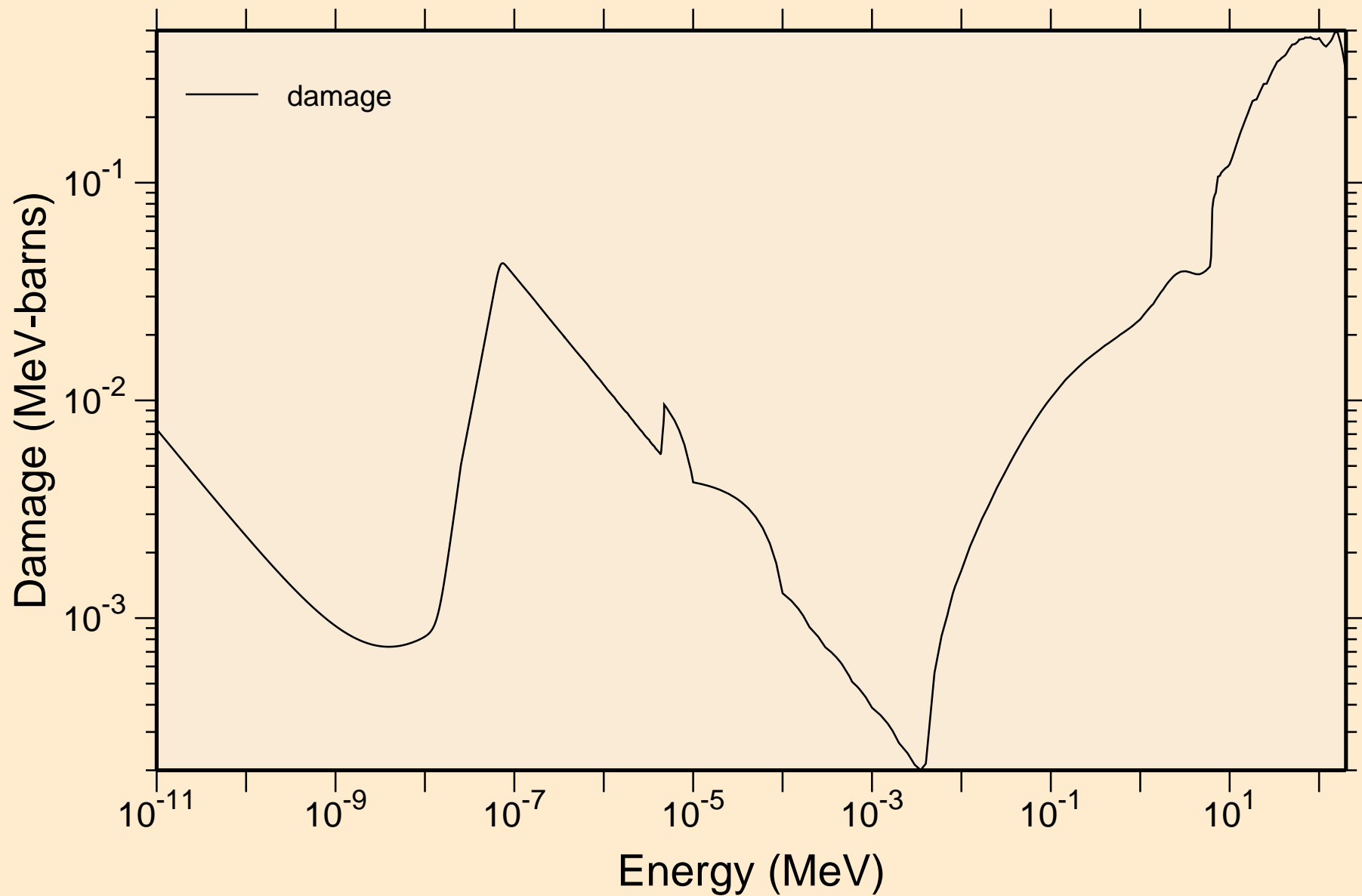
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resonance absorption cross sections



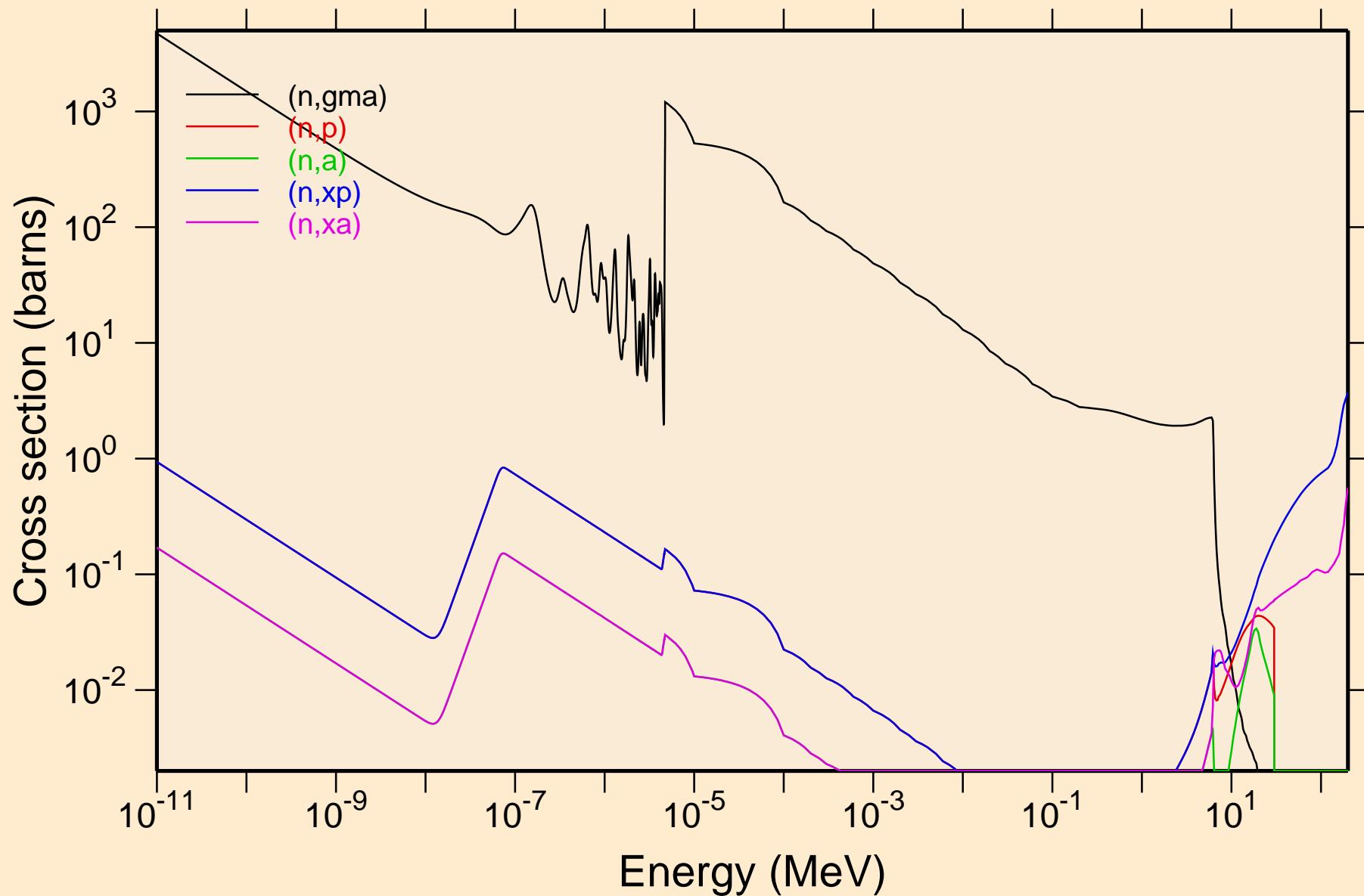
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



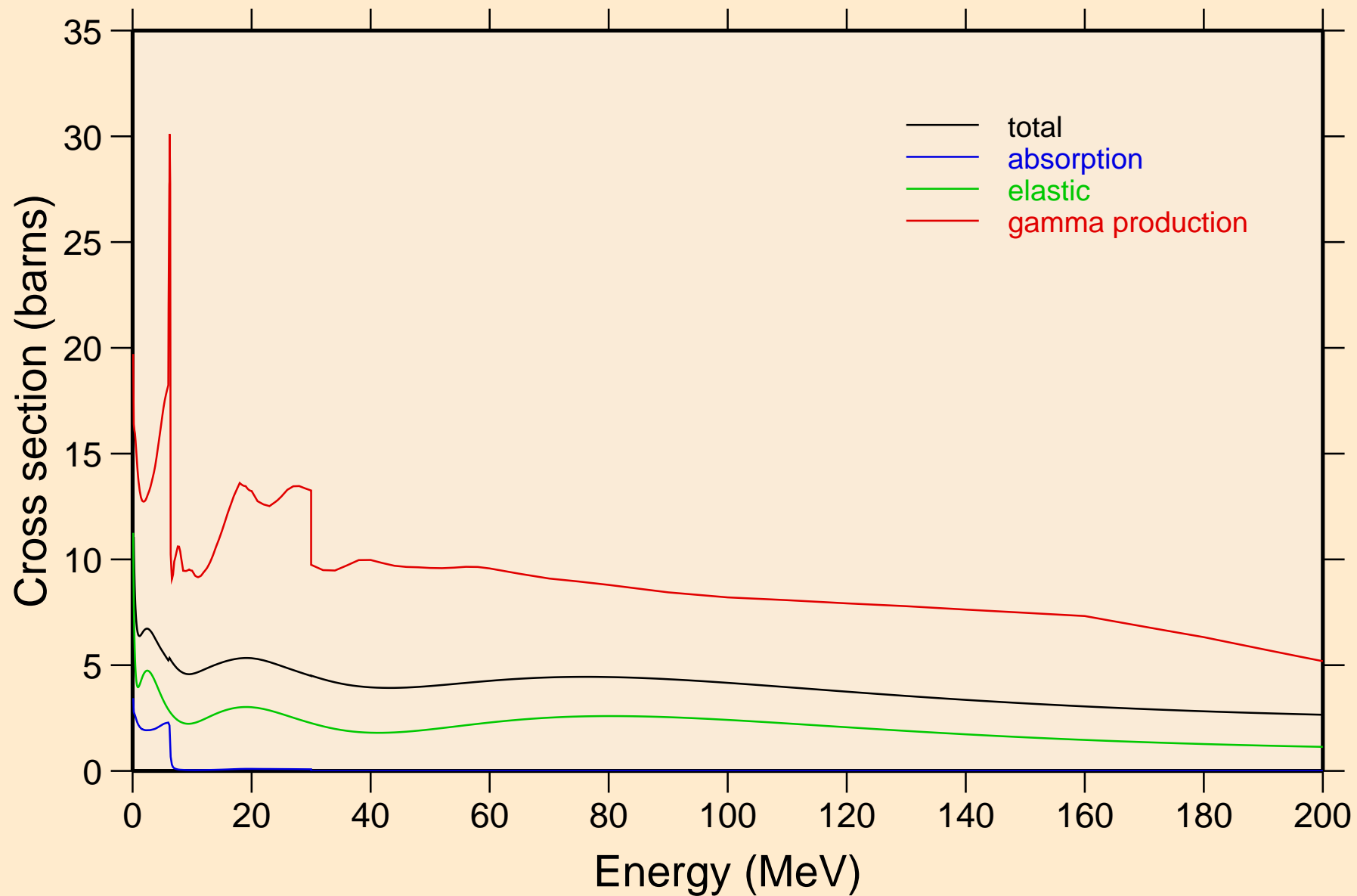
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



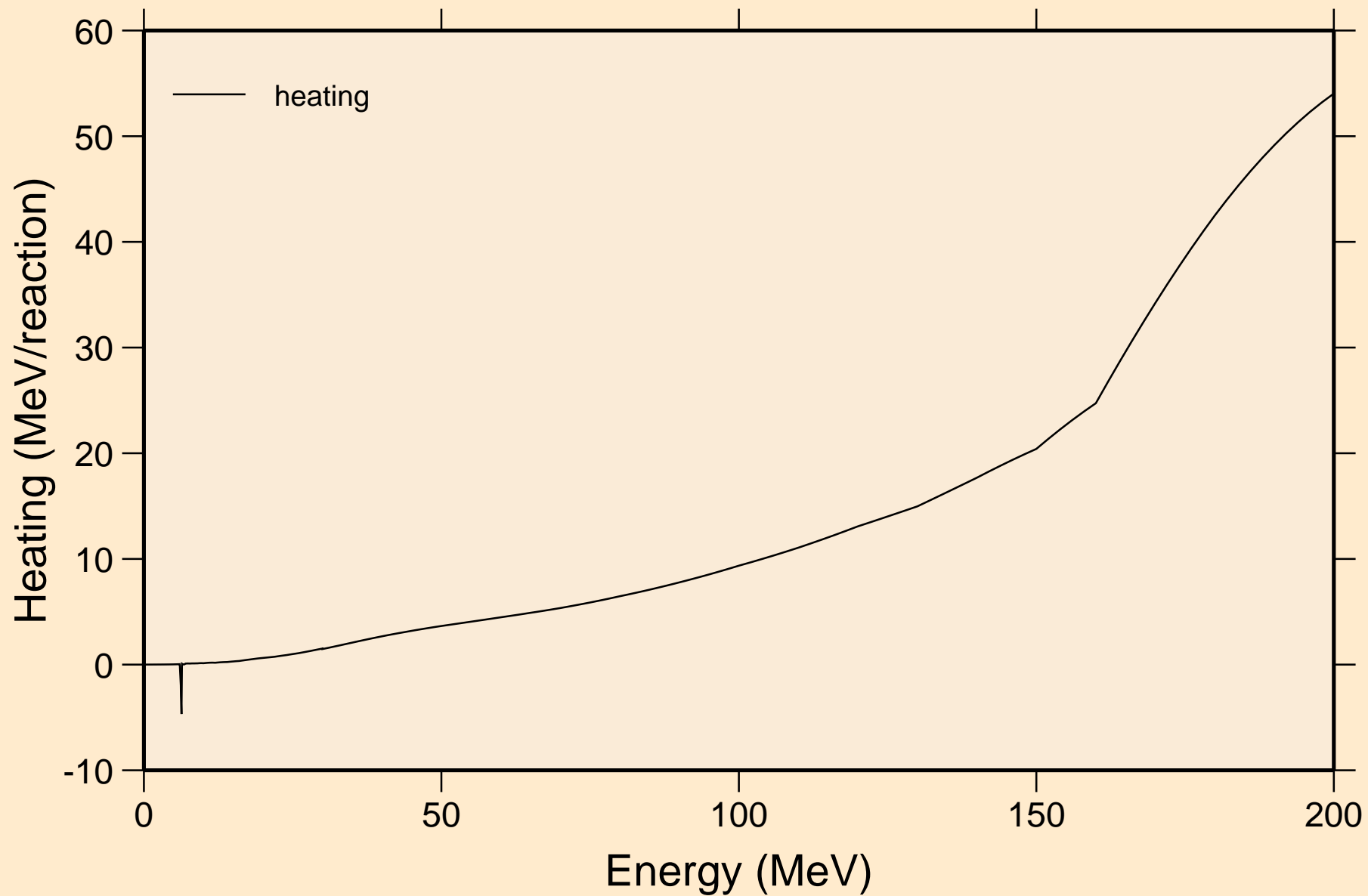
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



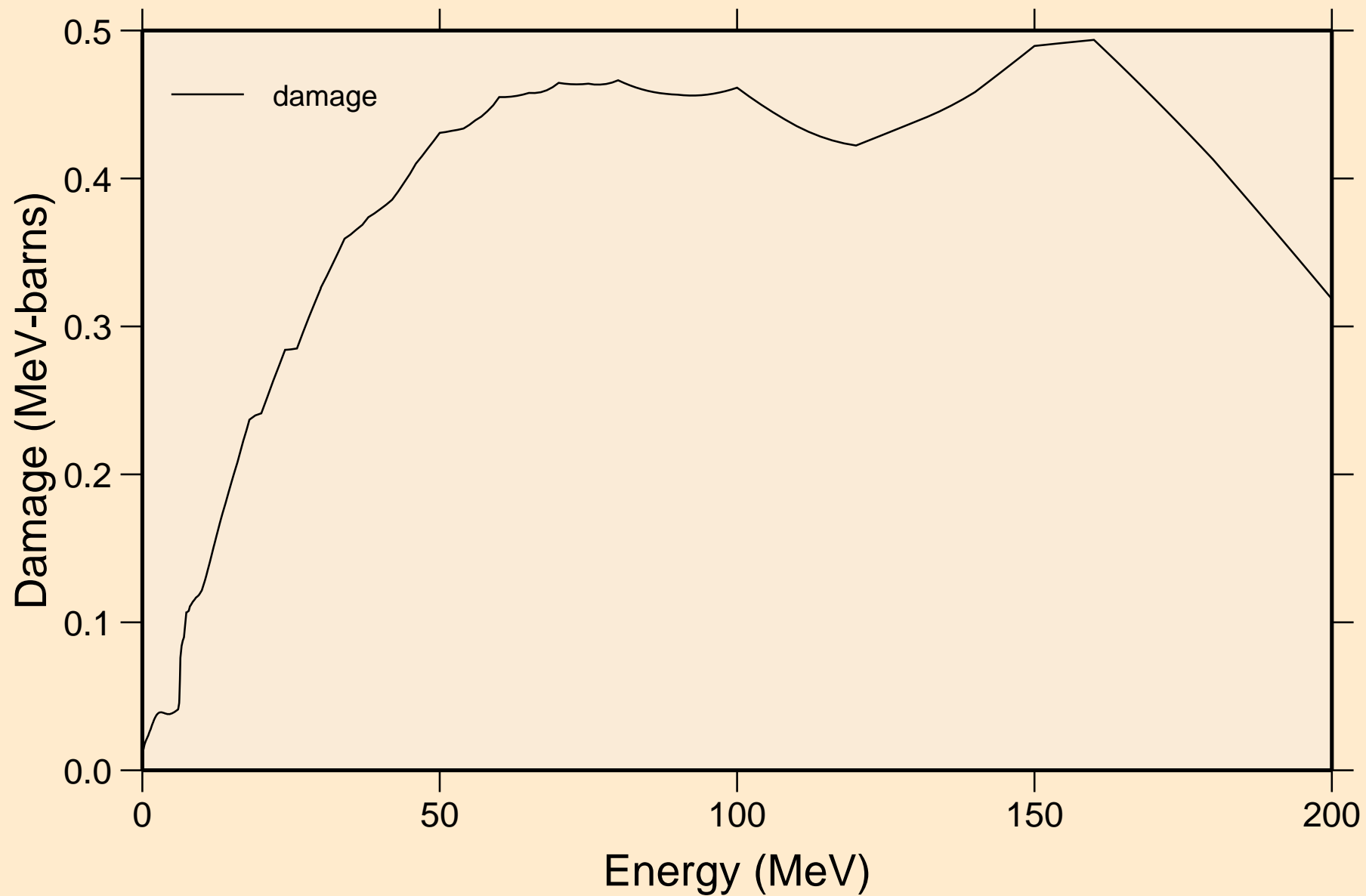
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



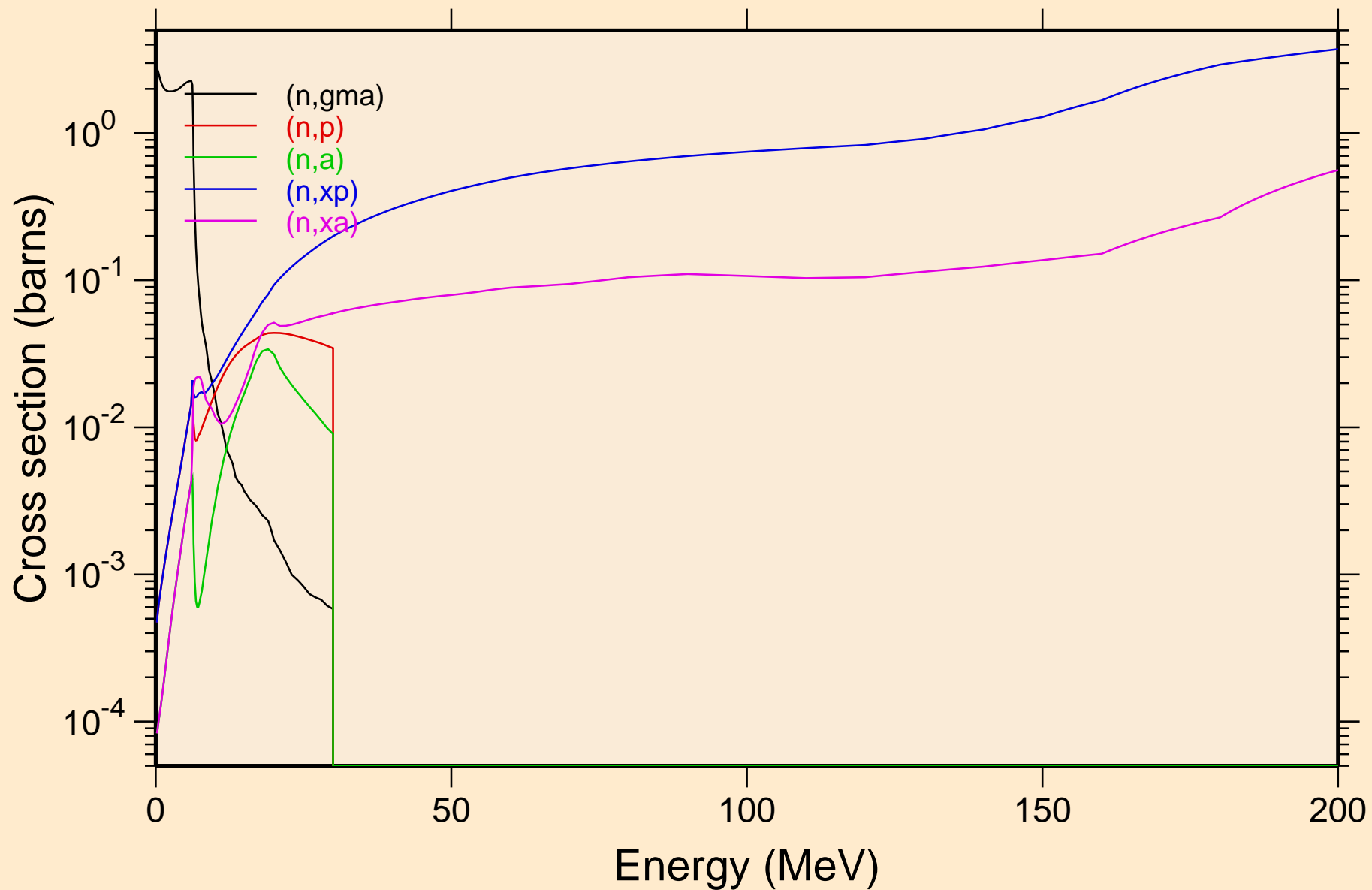
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

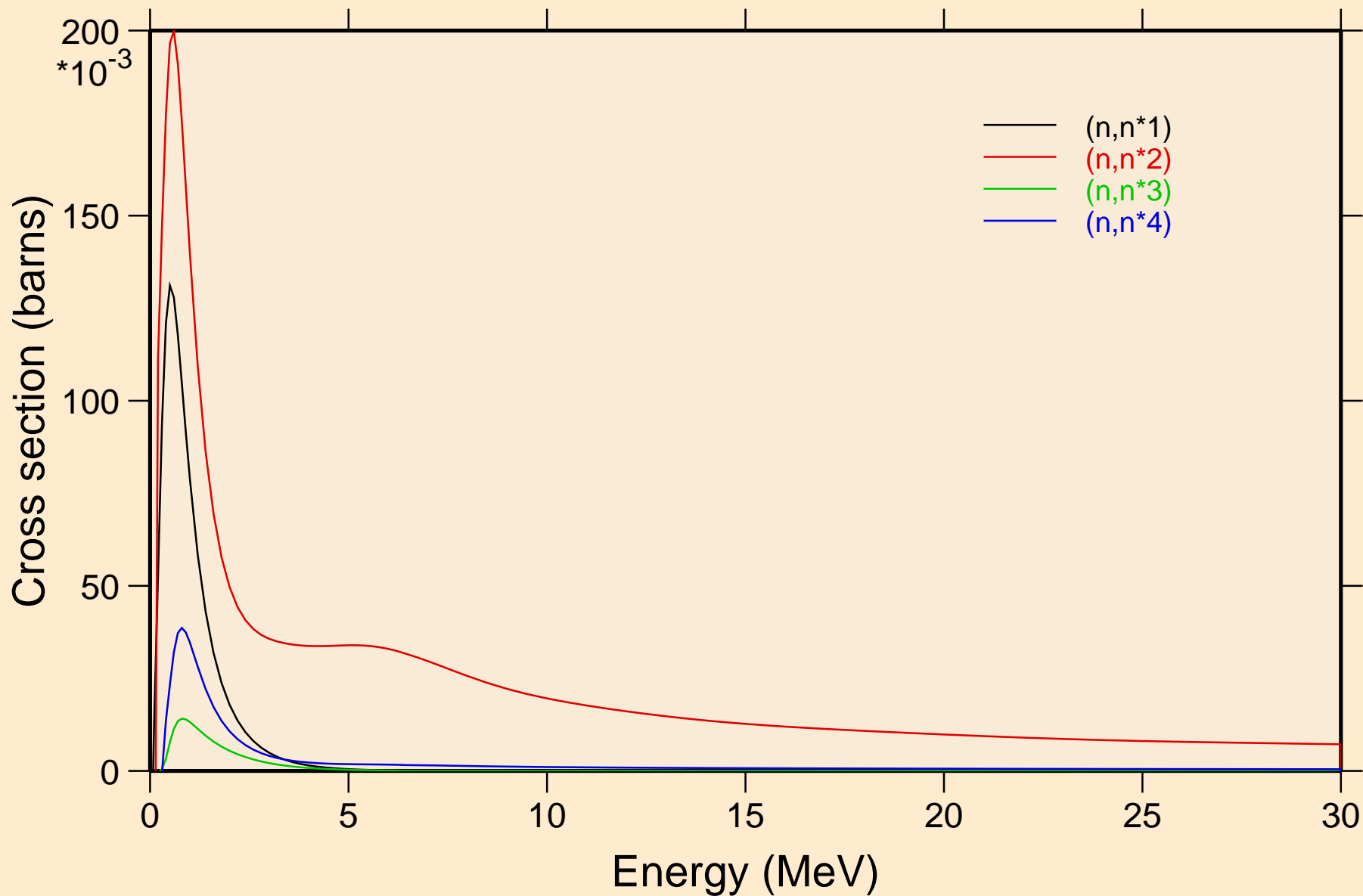


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

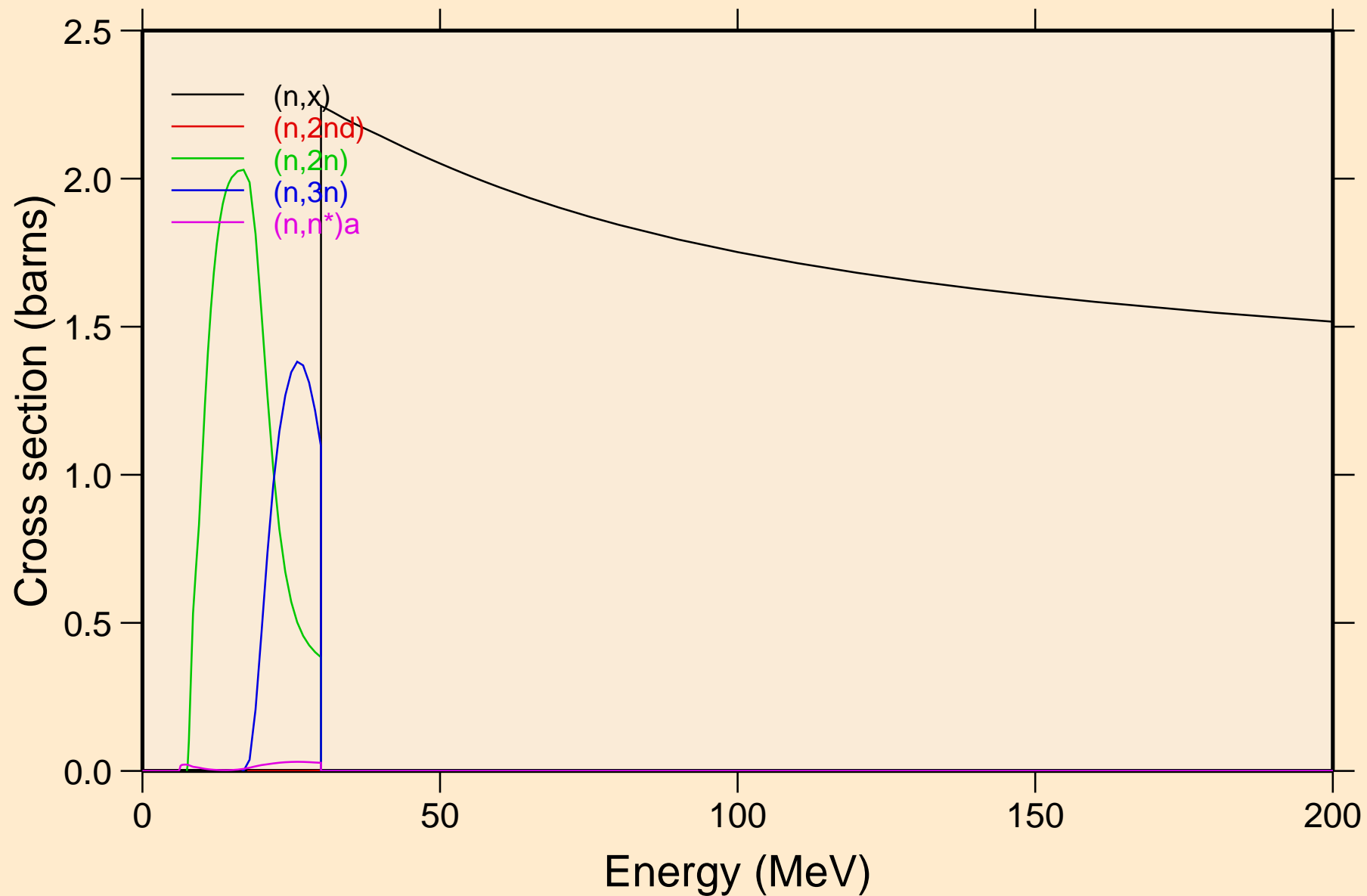




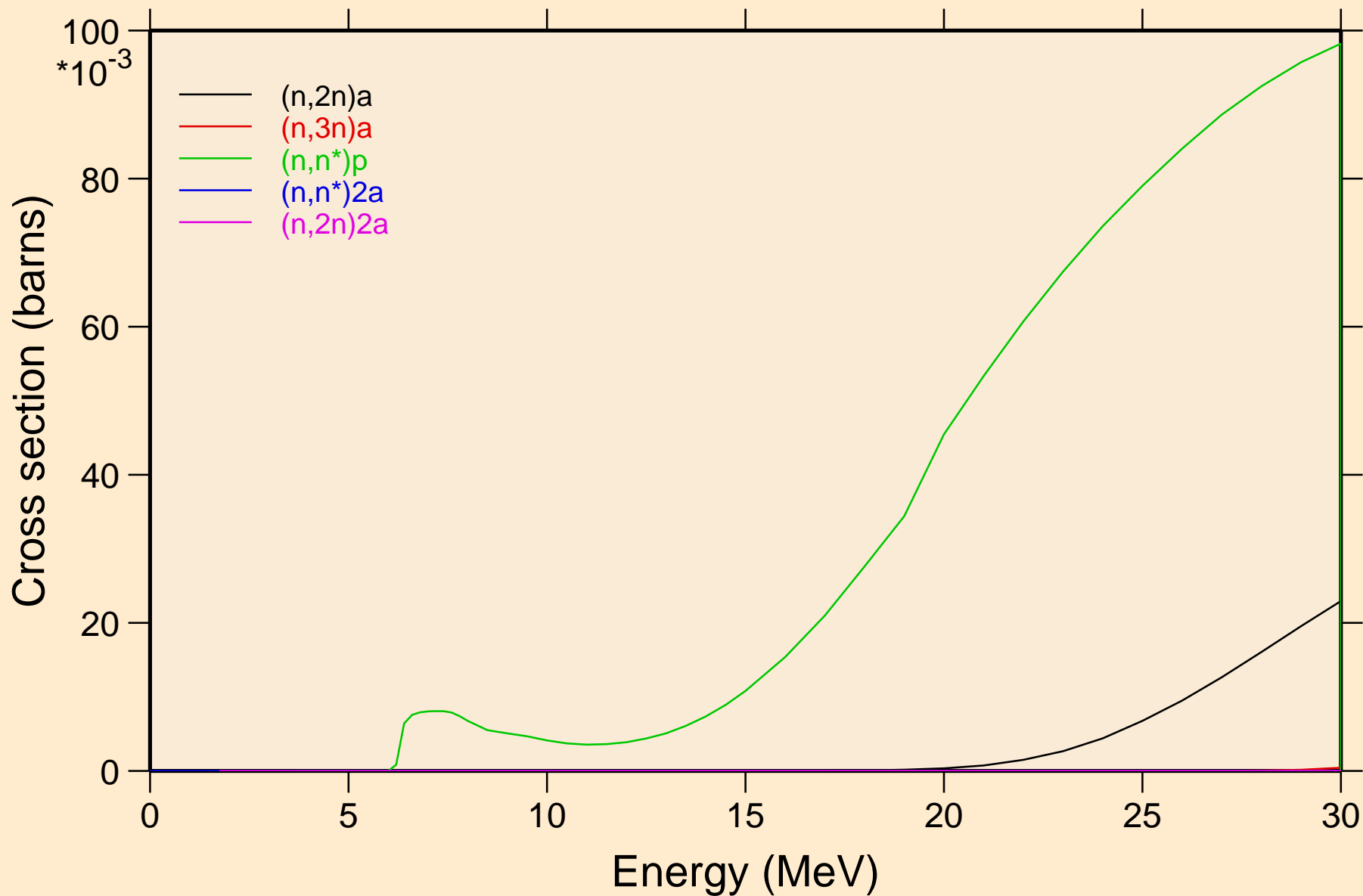
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



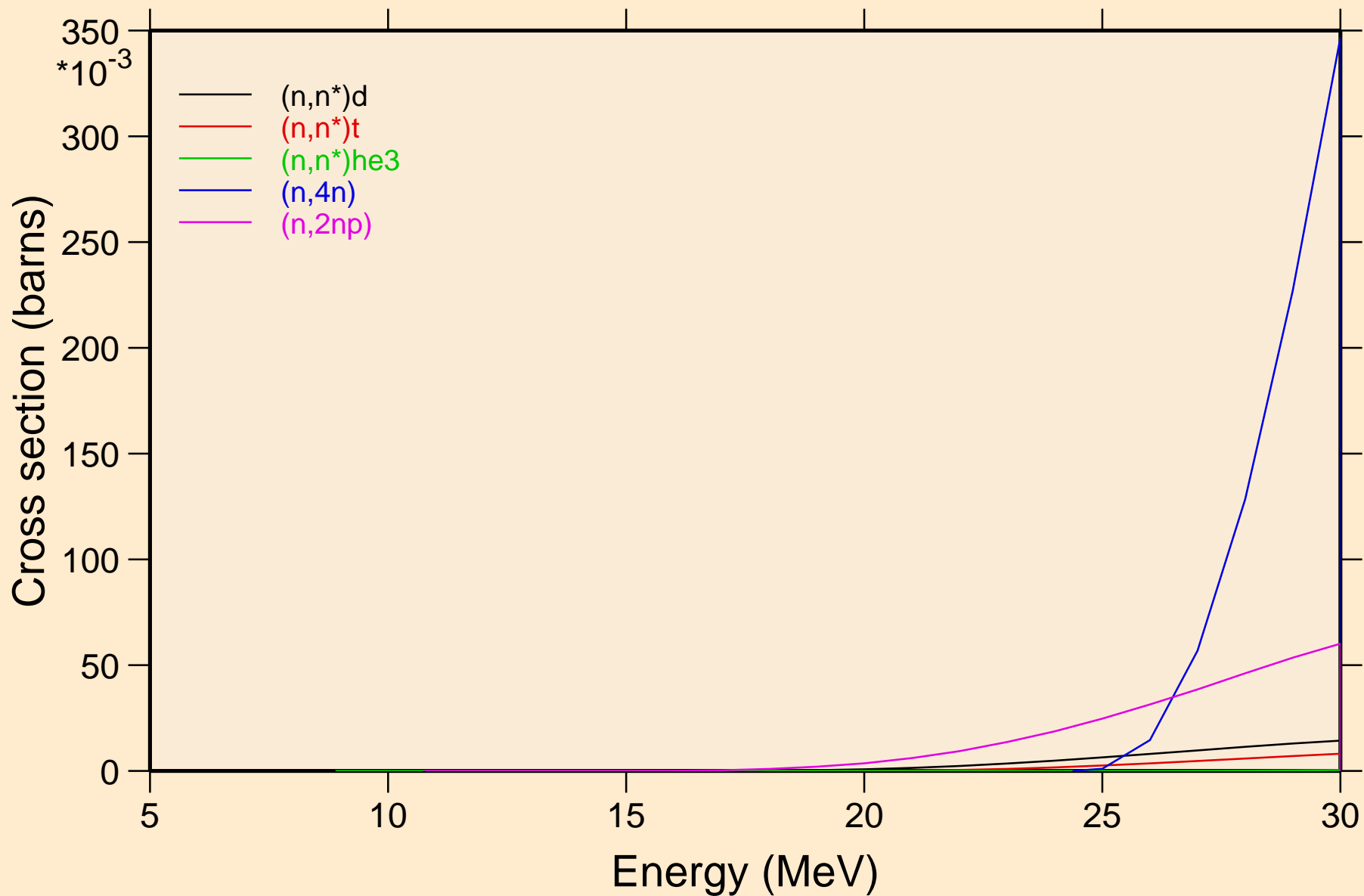
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



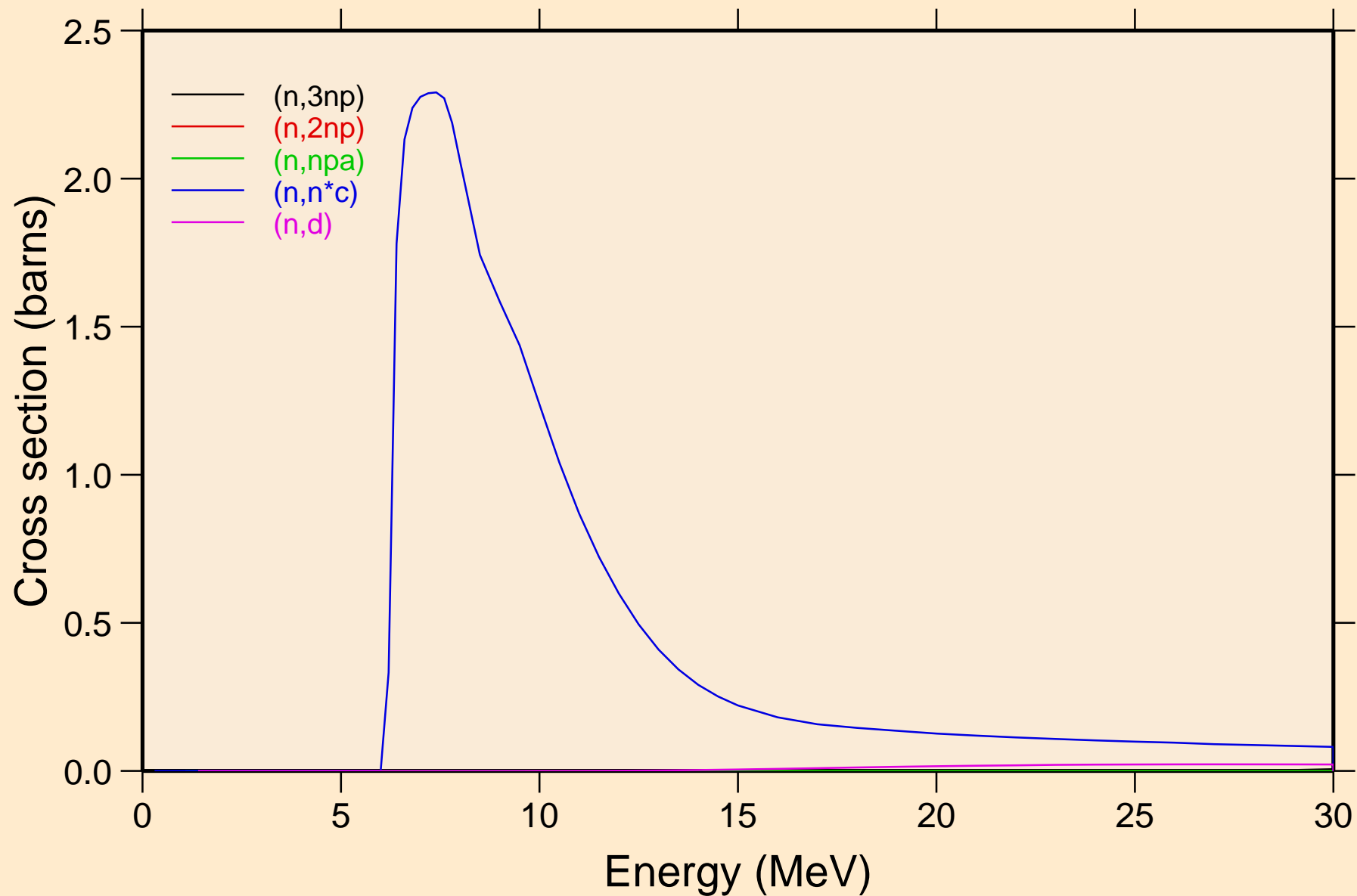
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



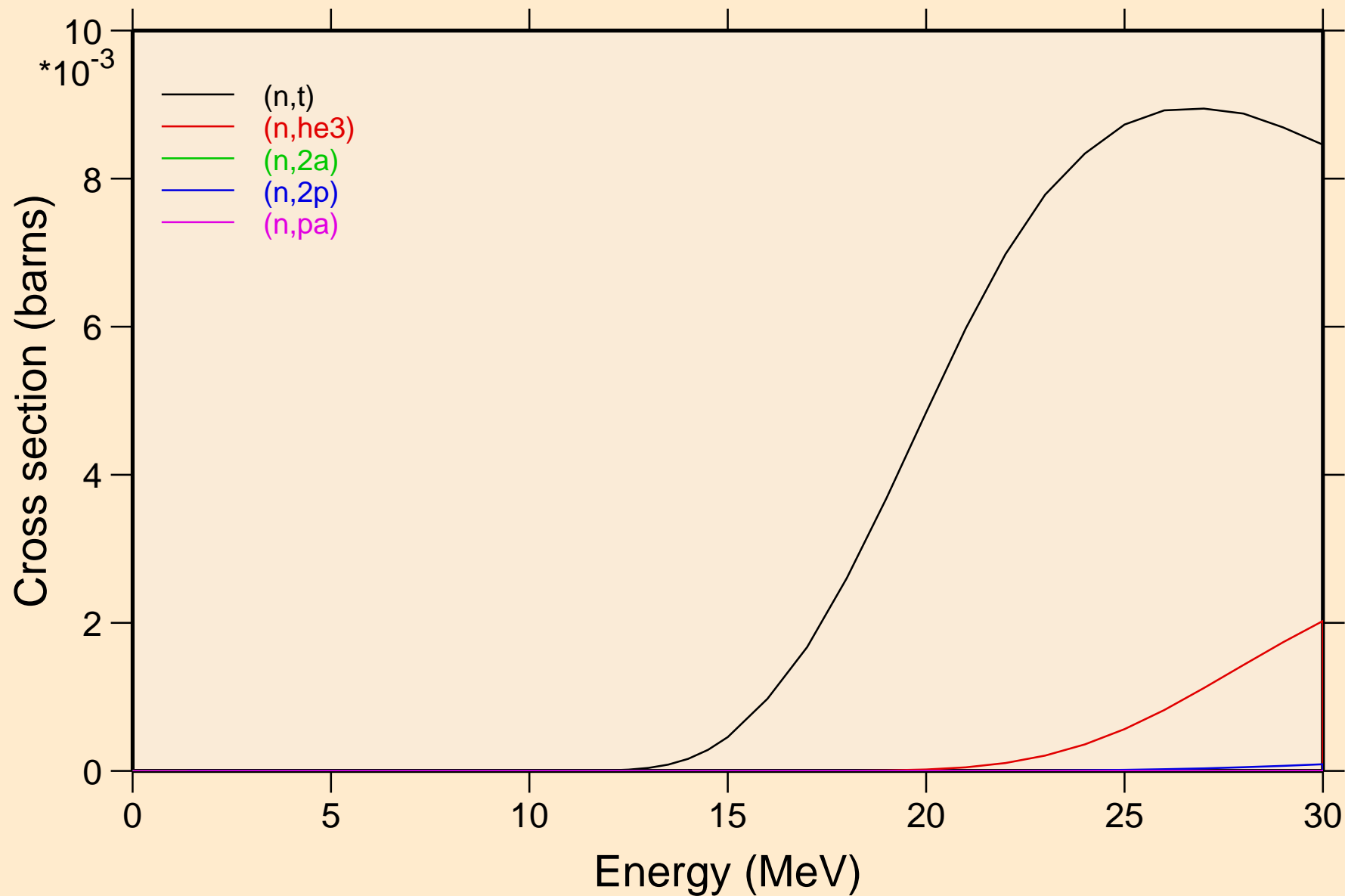
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



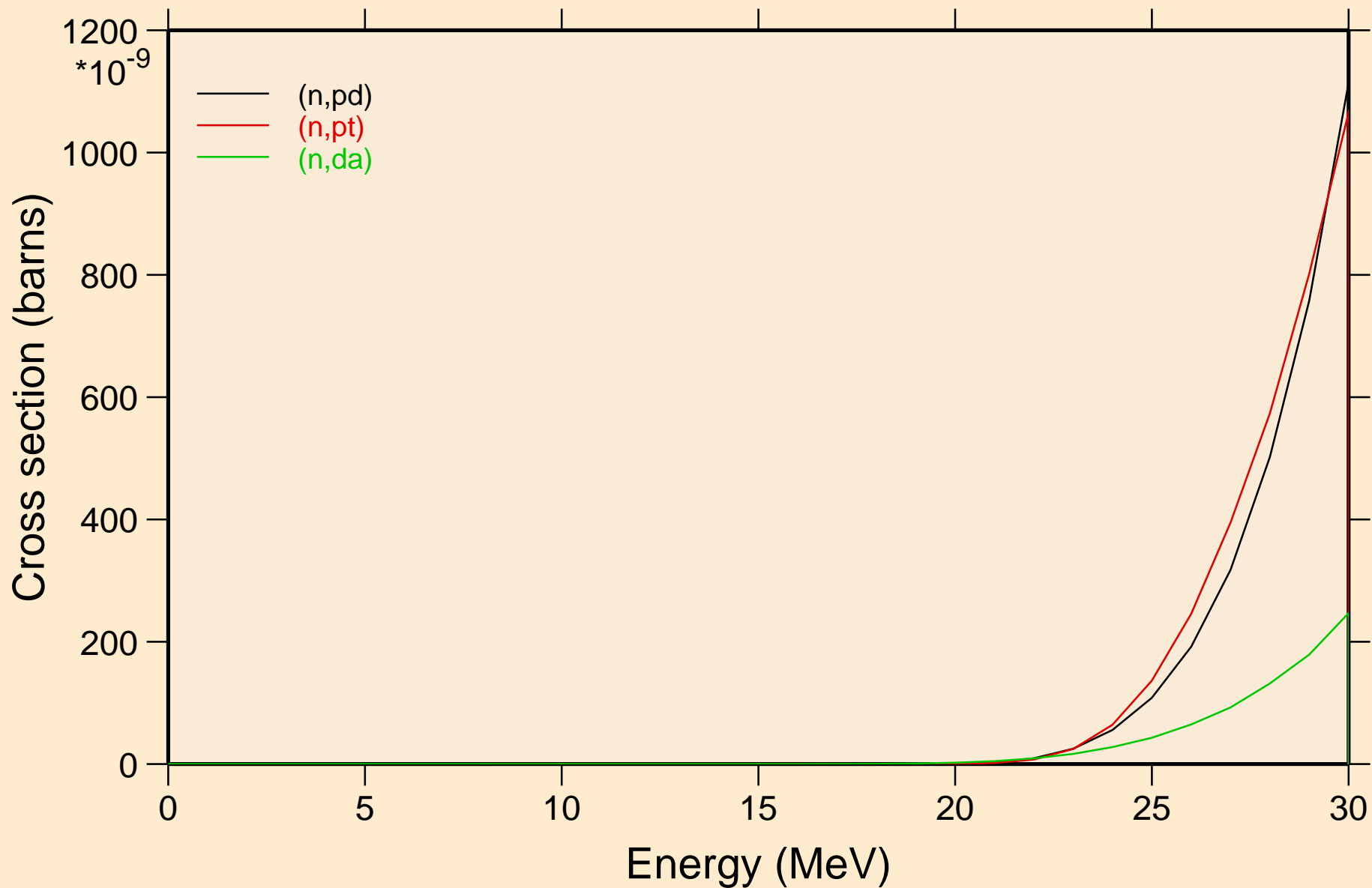
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



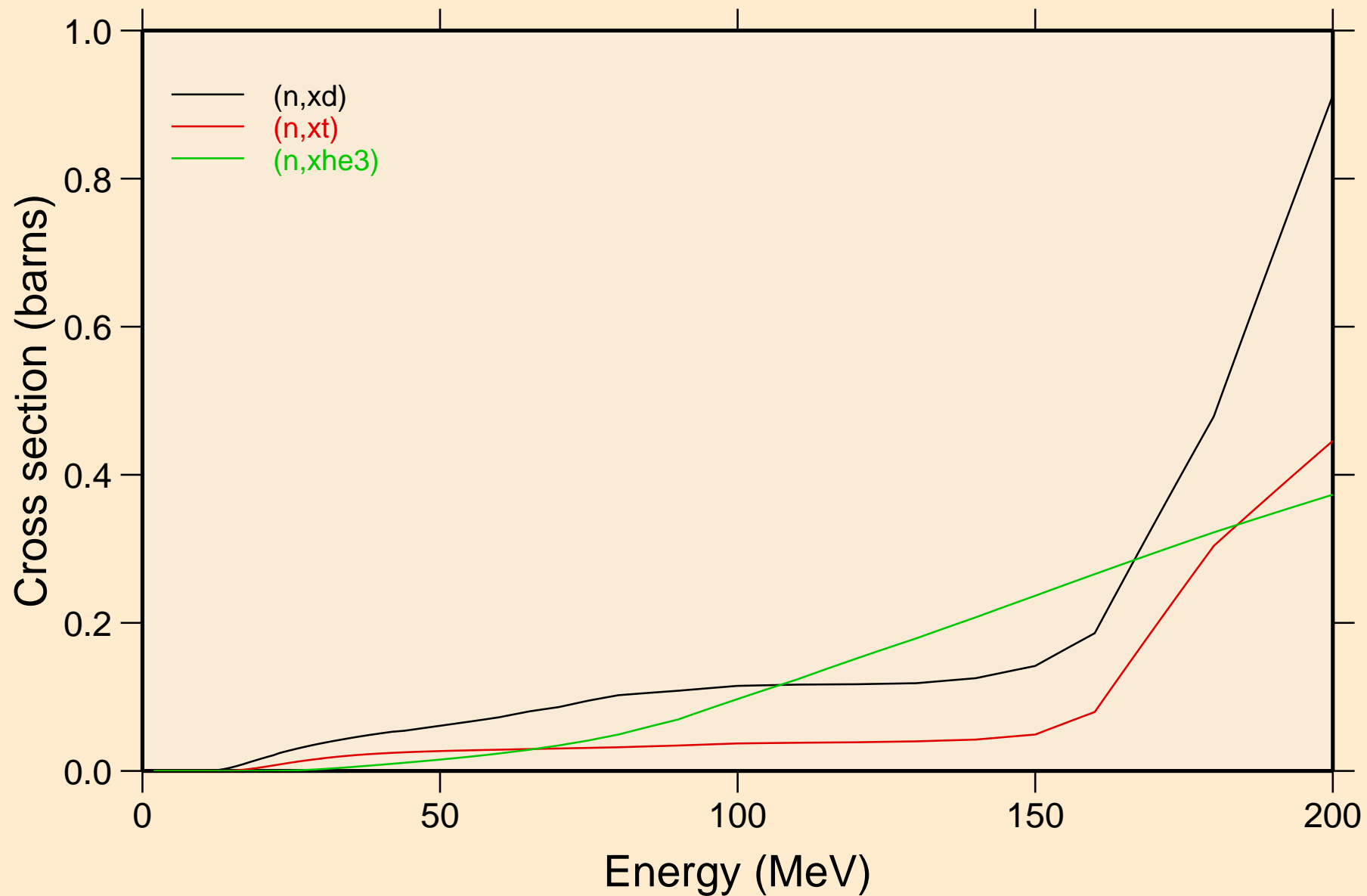
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

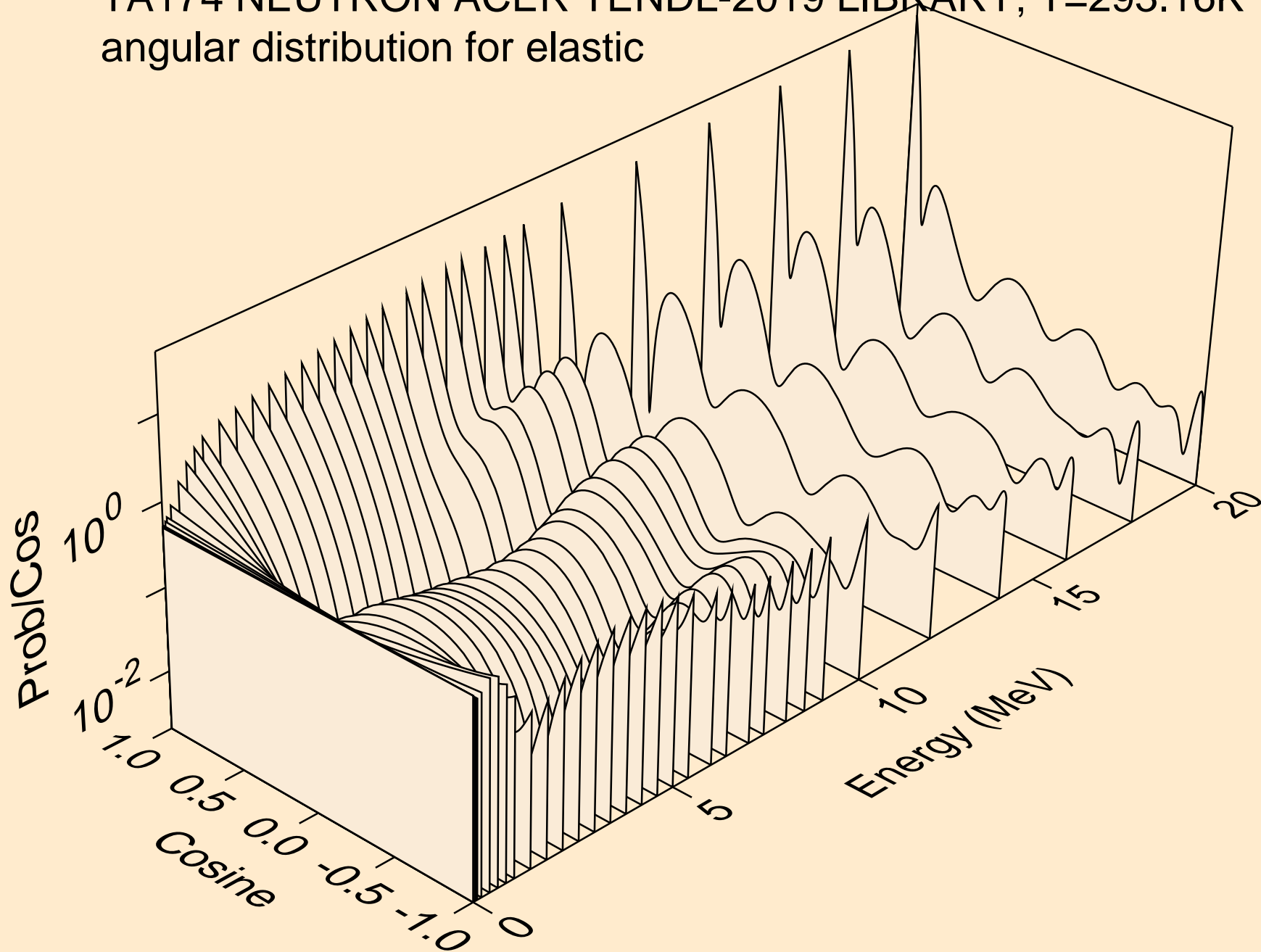


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

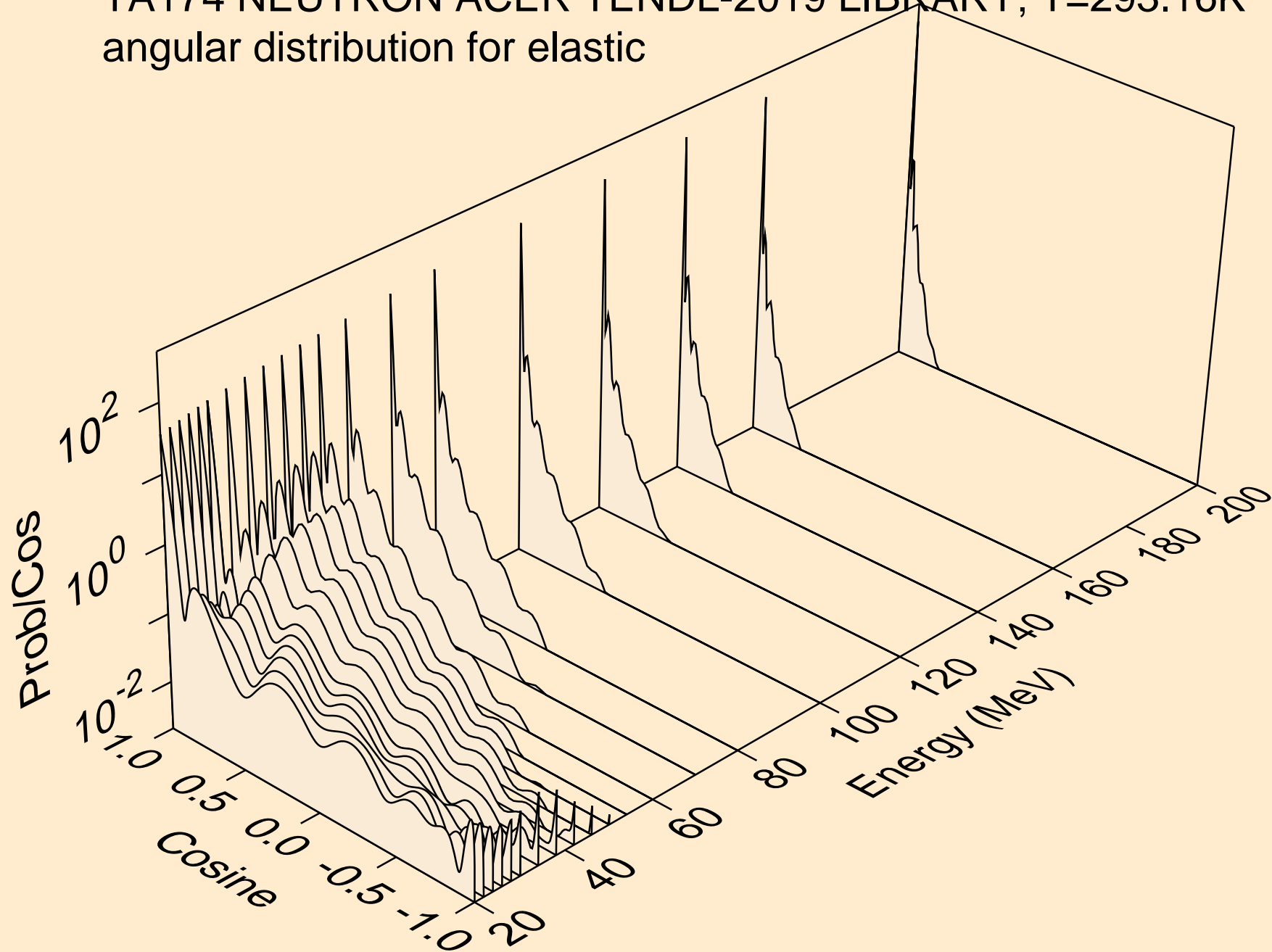




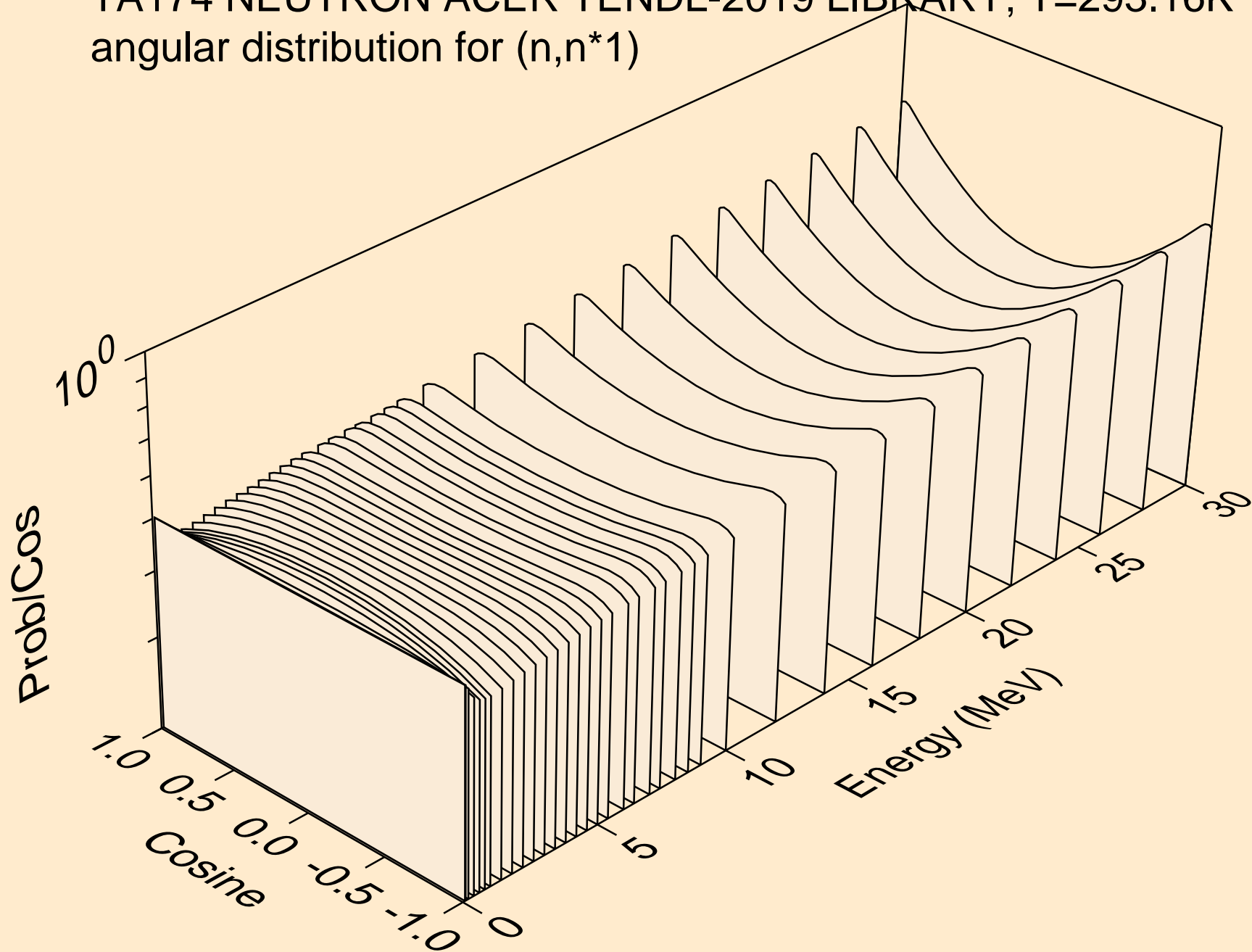
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



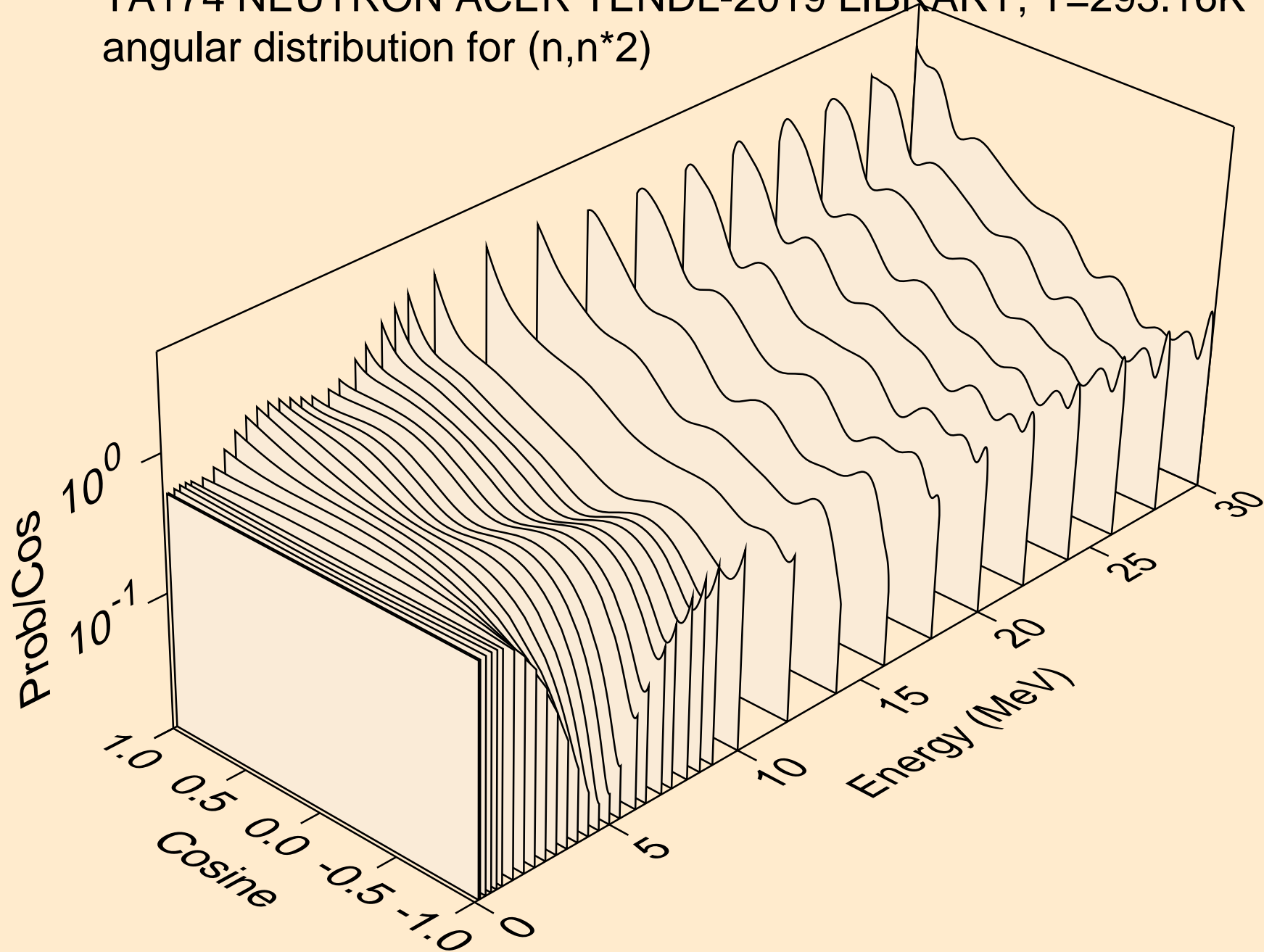
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



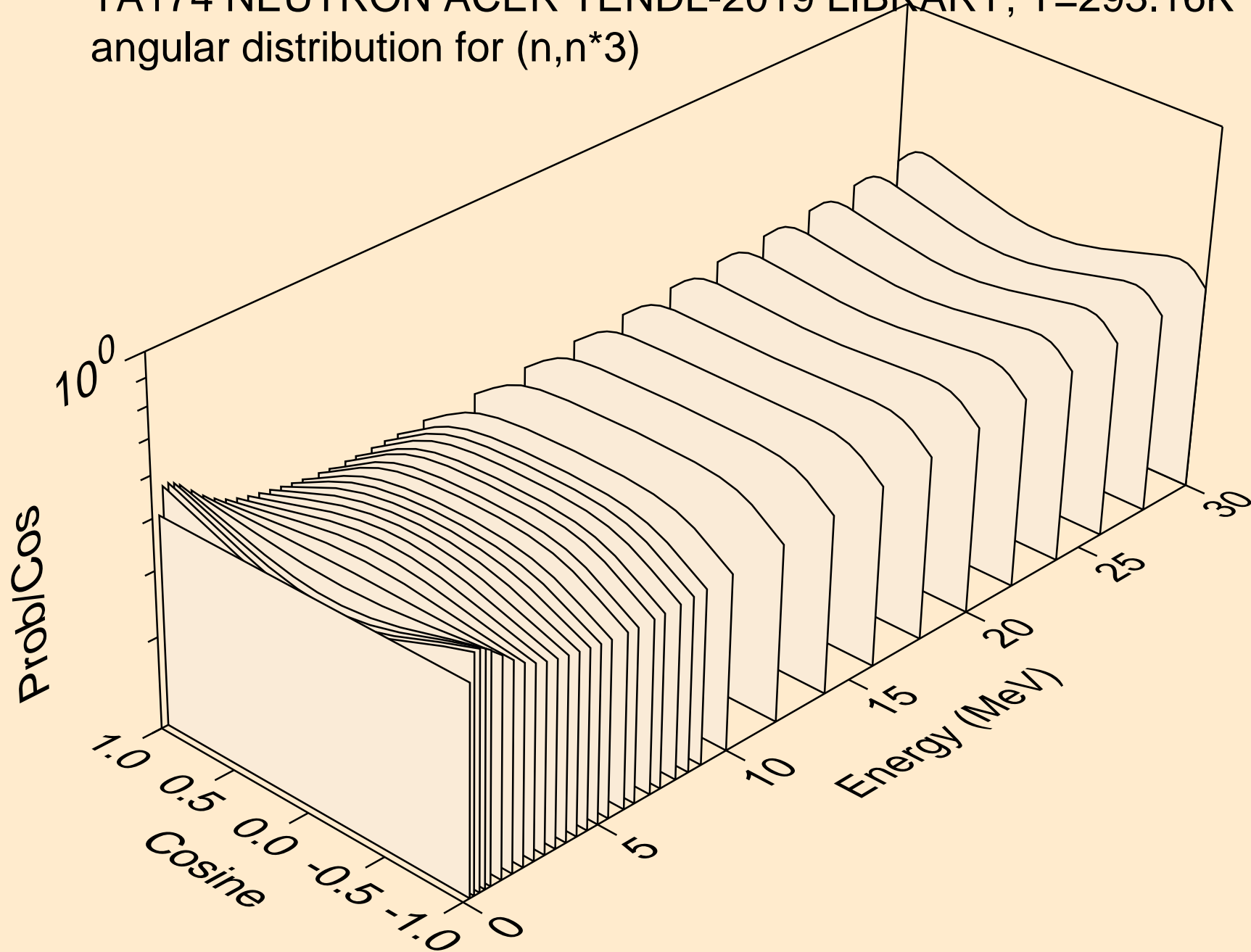
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



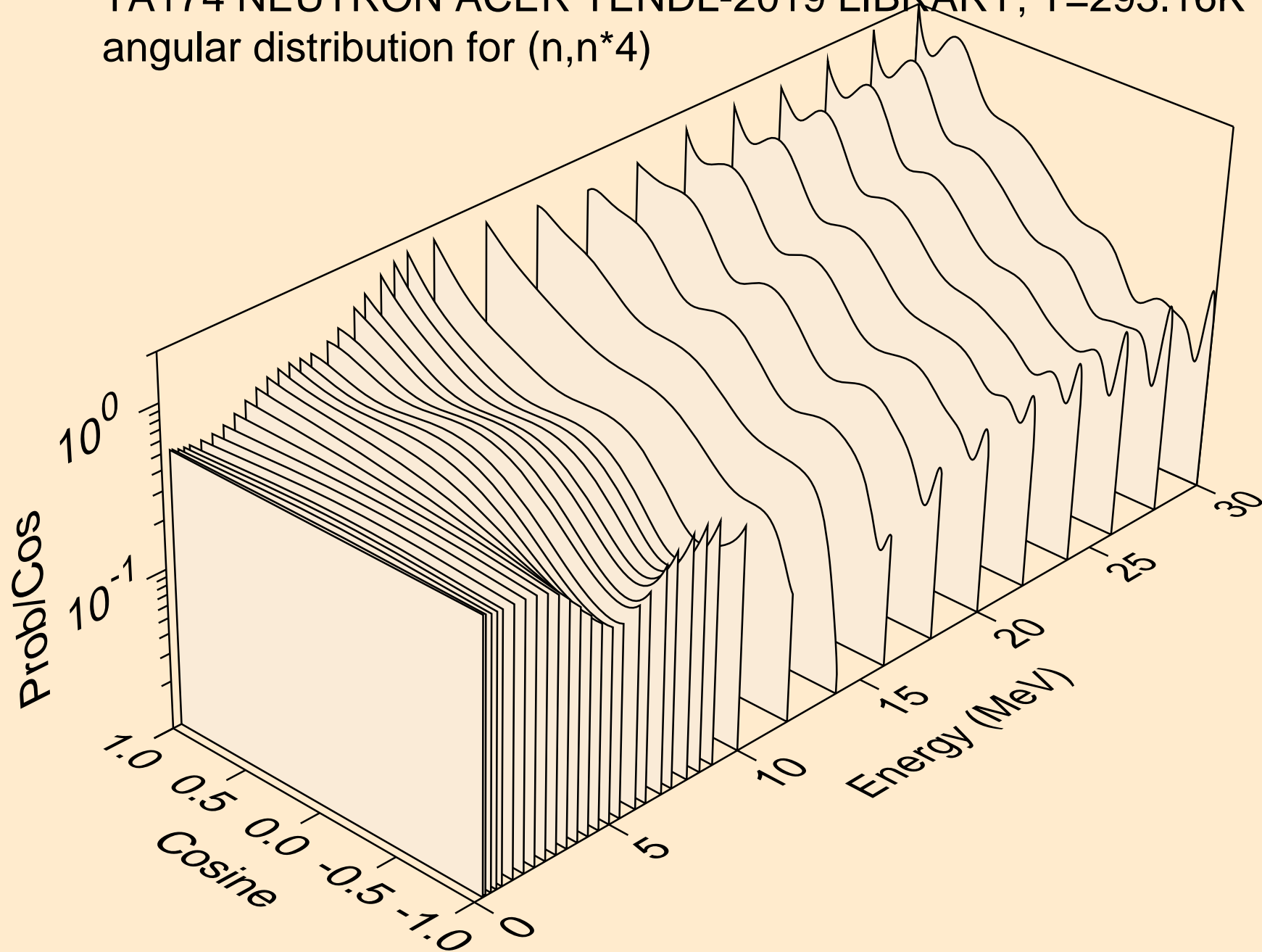
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)



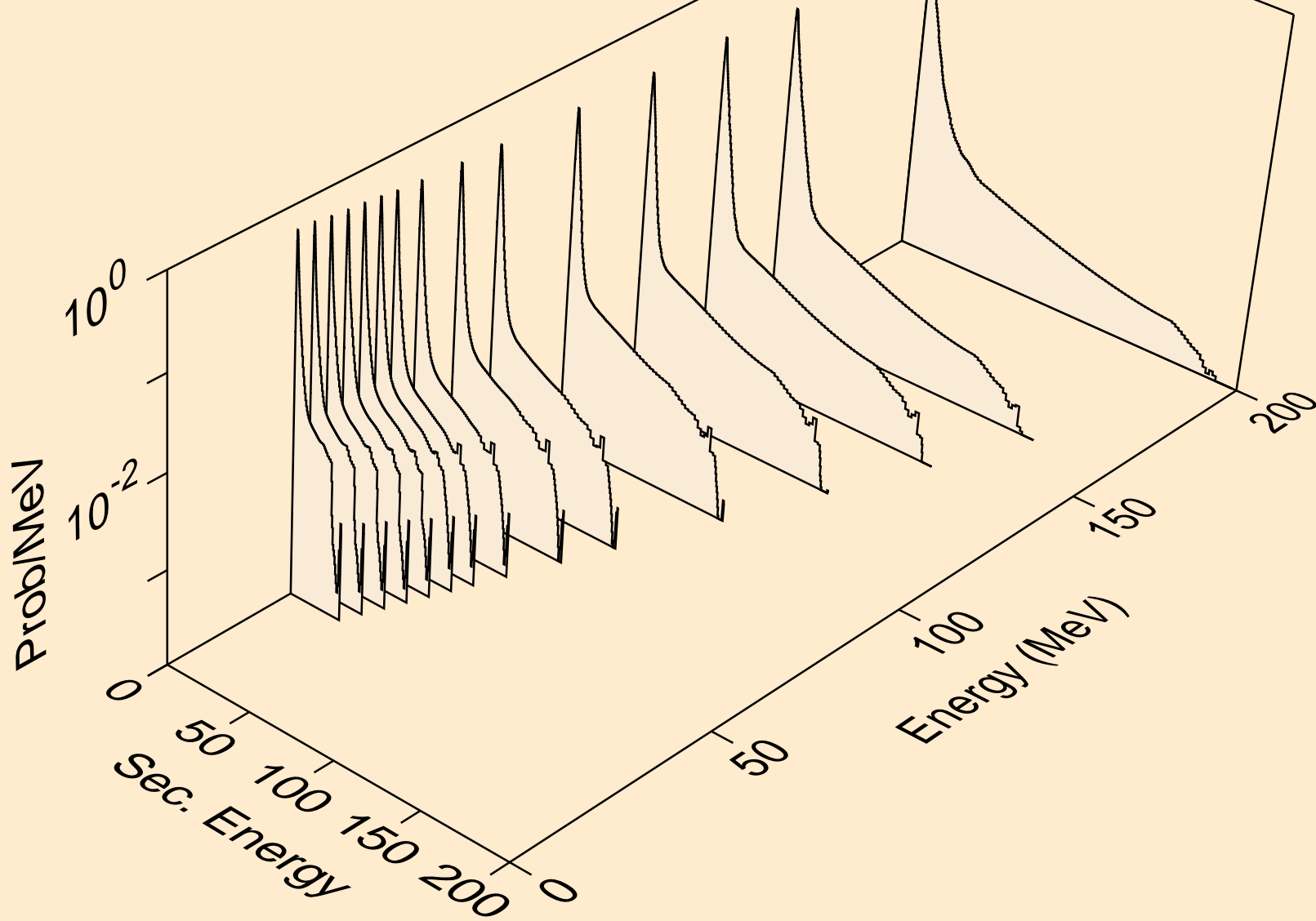
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



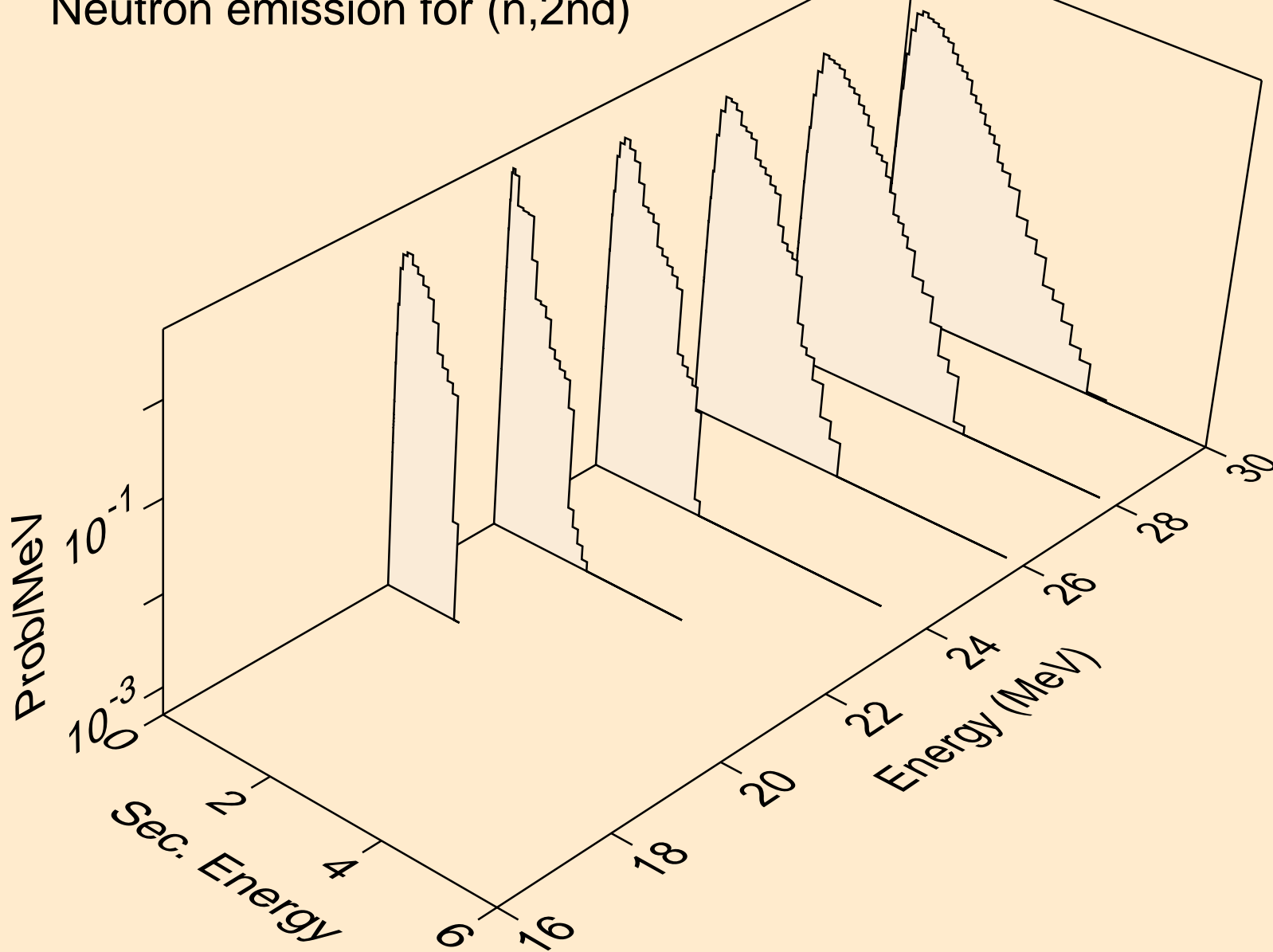
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*4)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

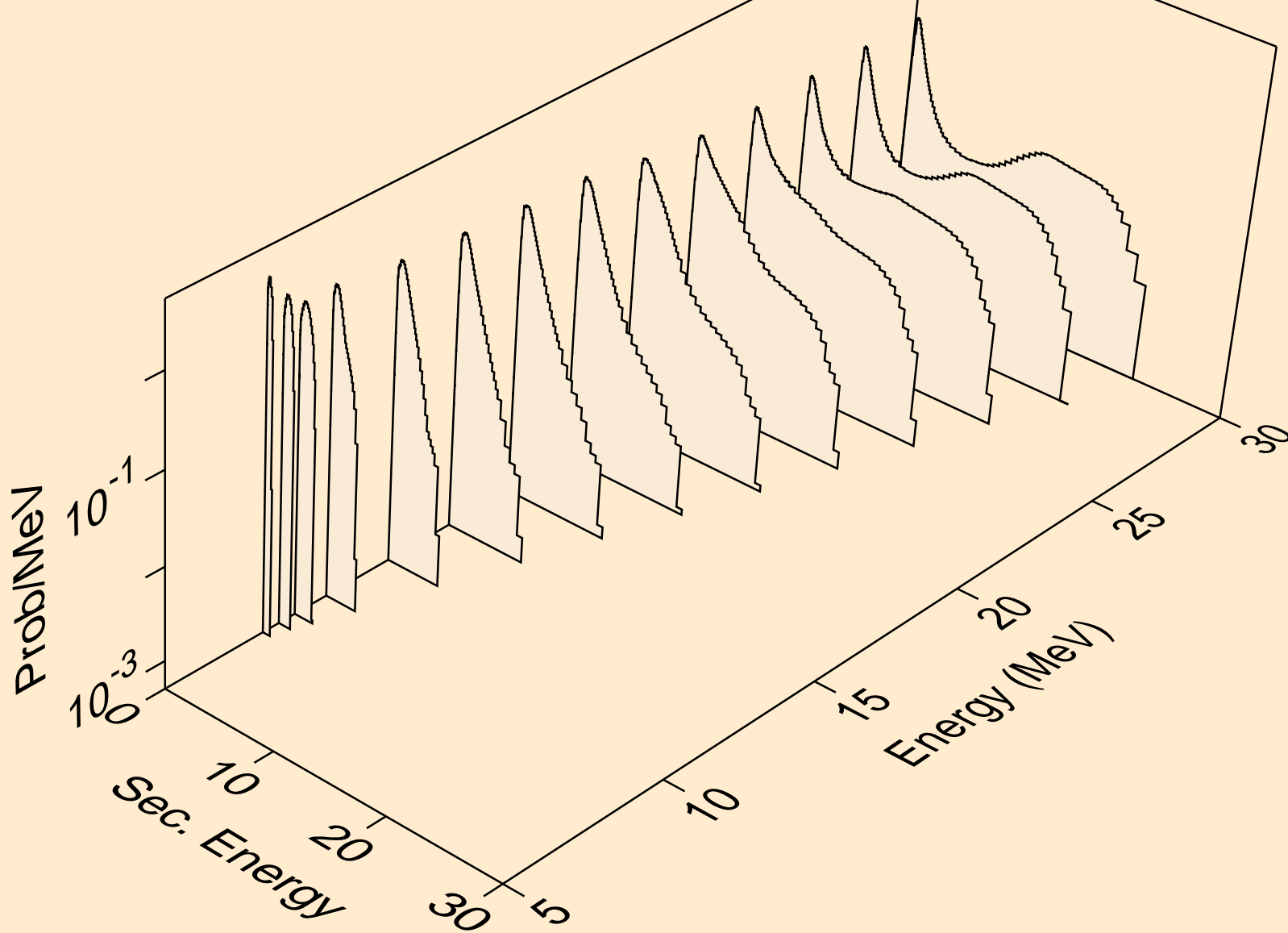


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

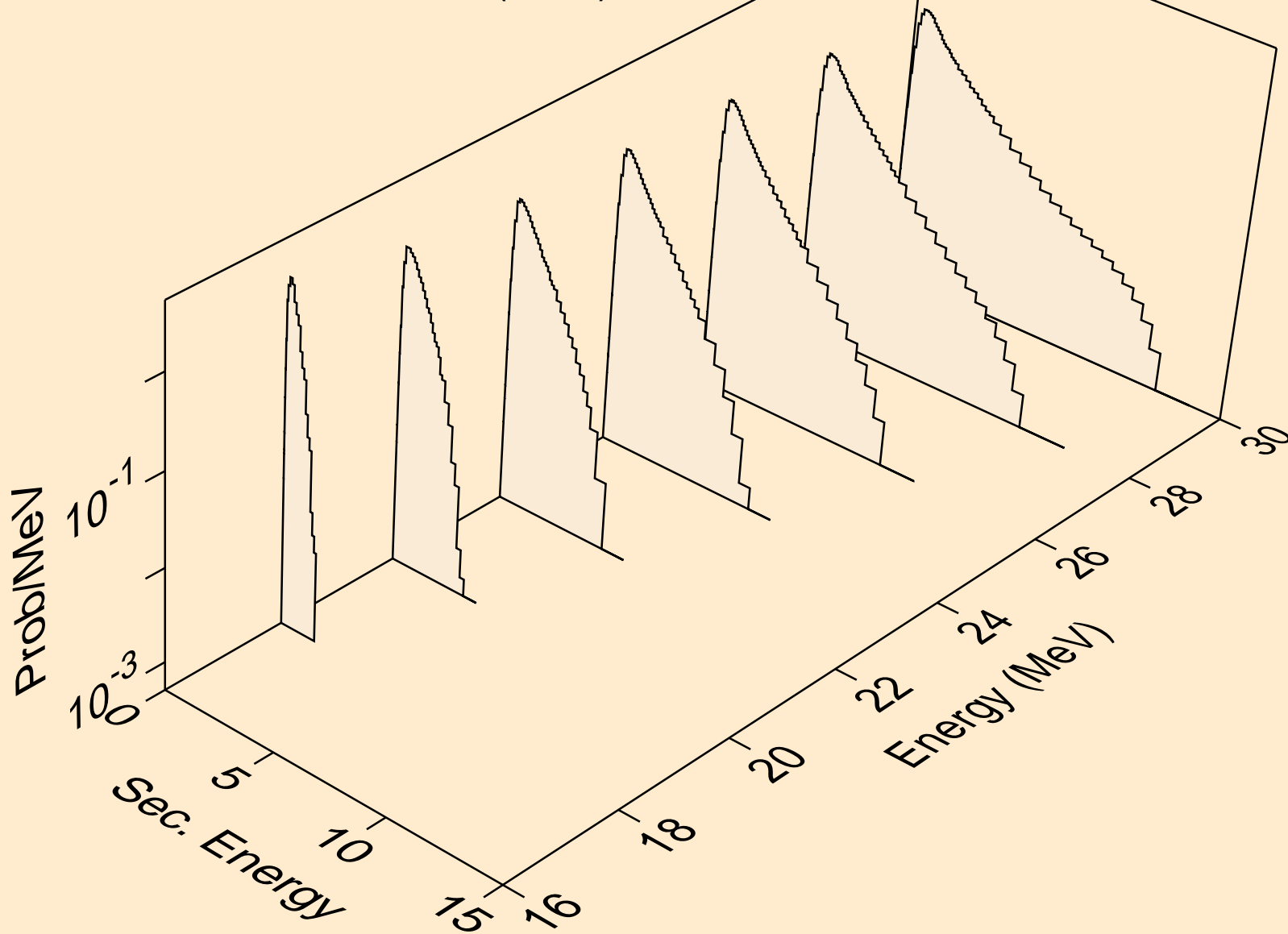




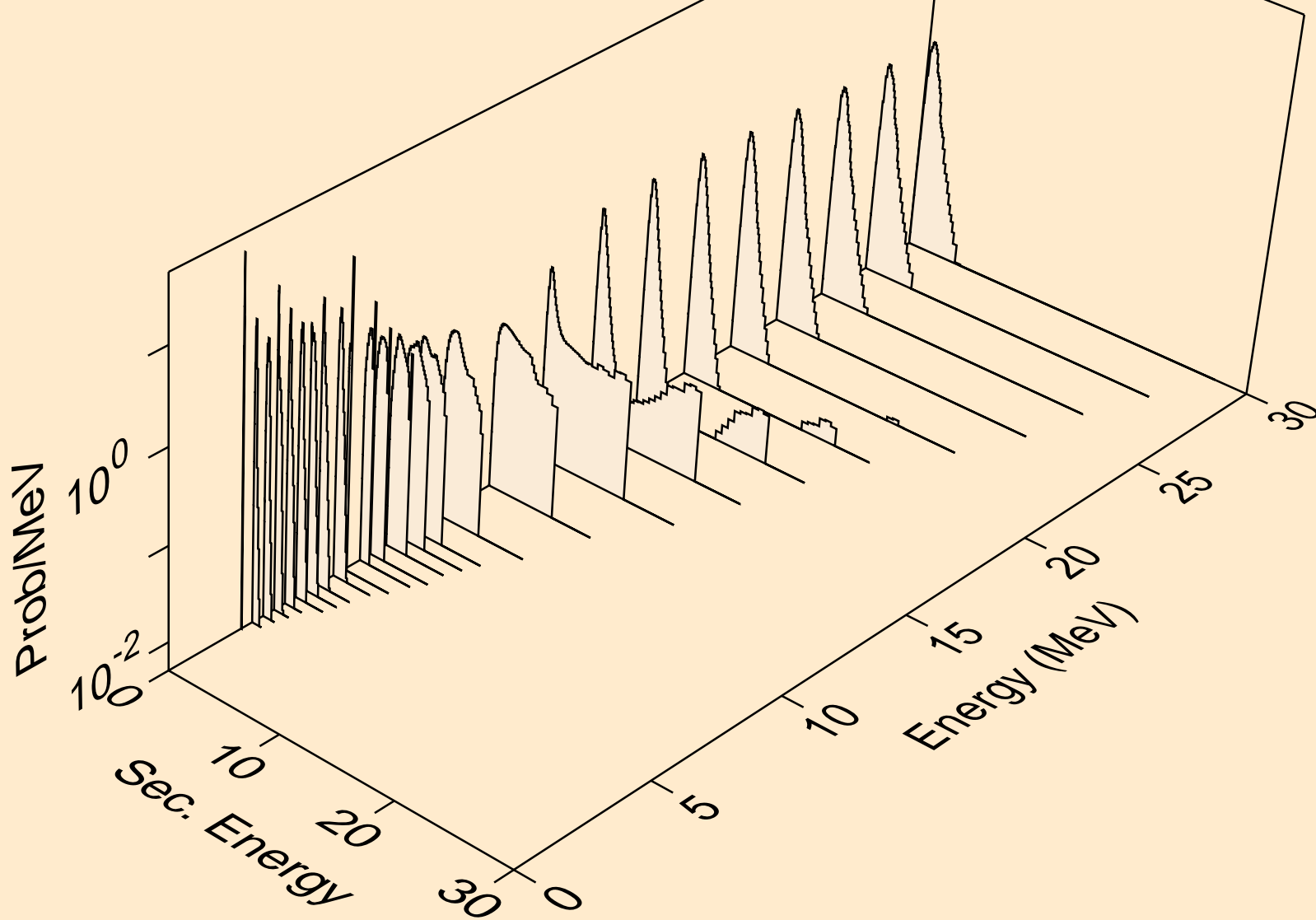
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



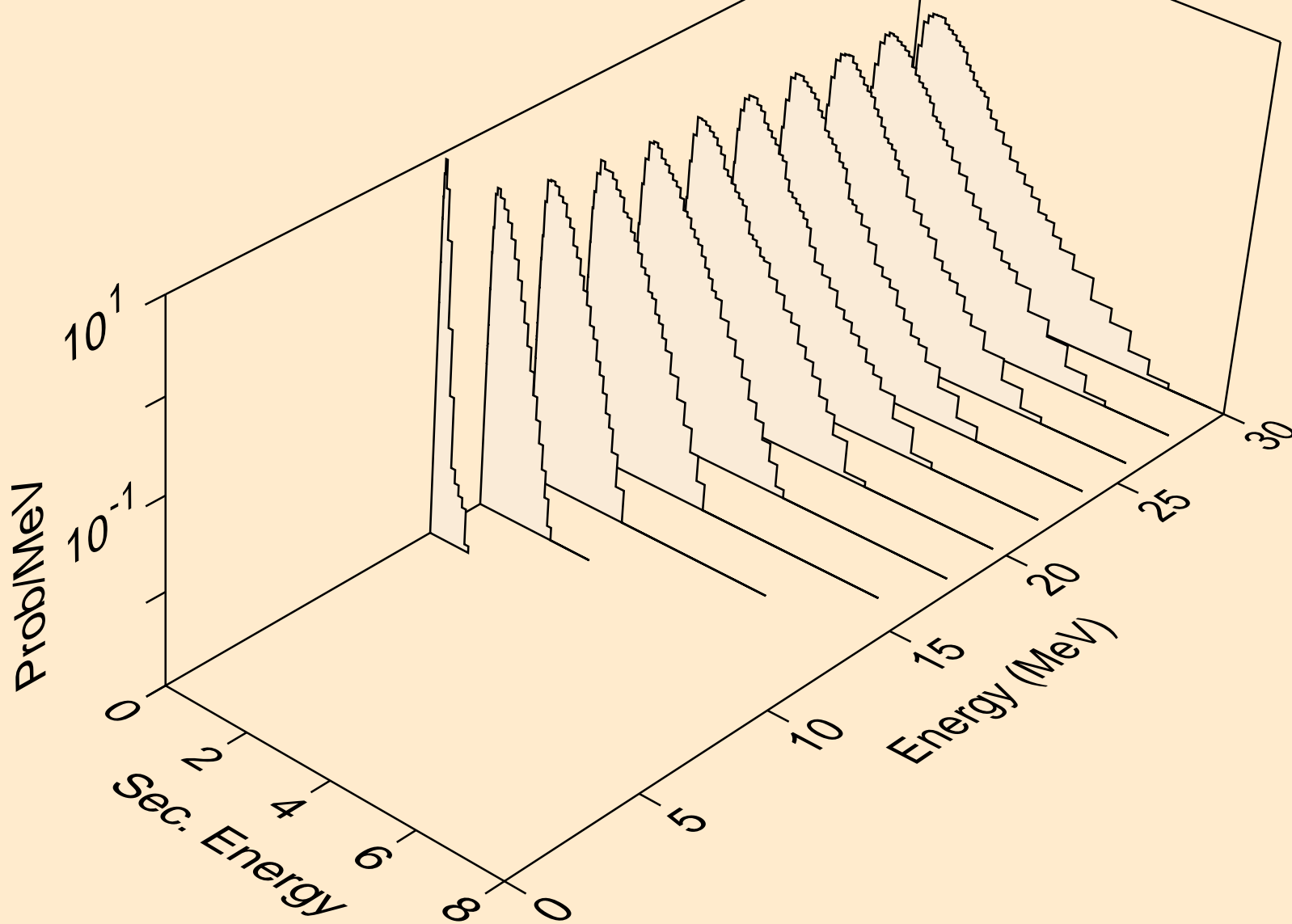
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



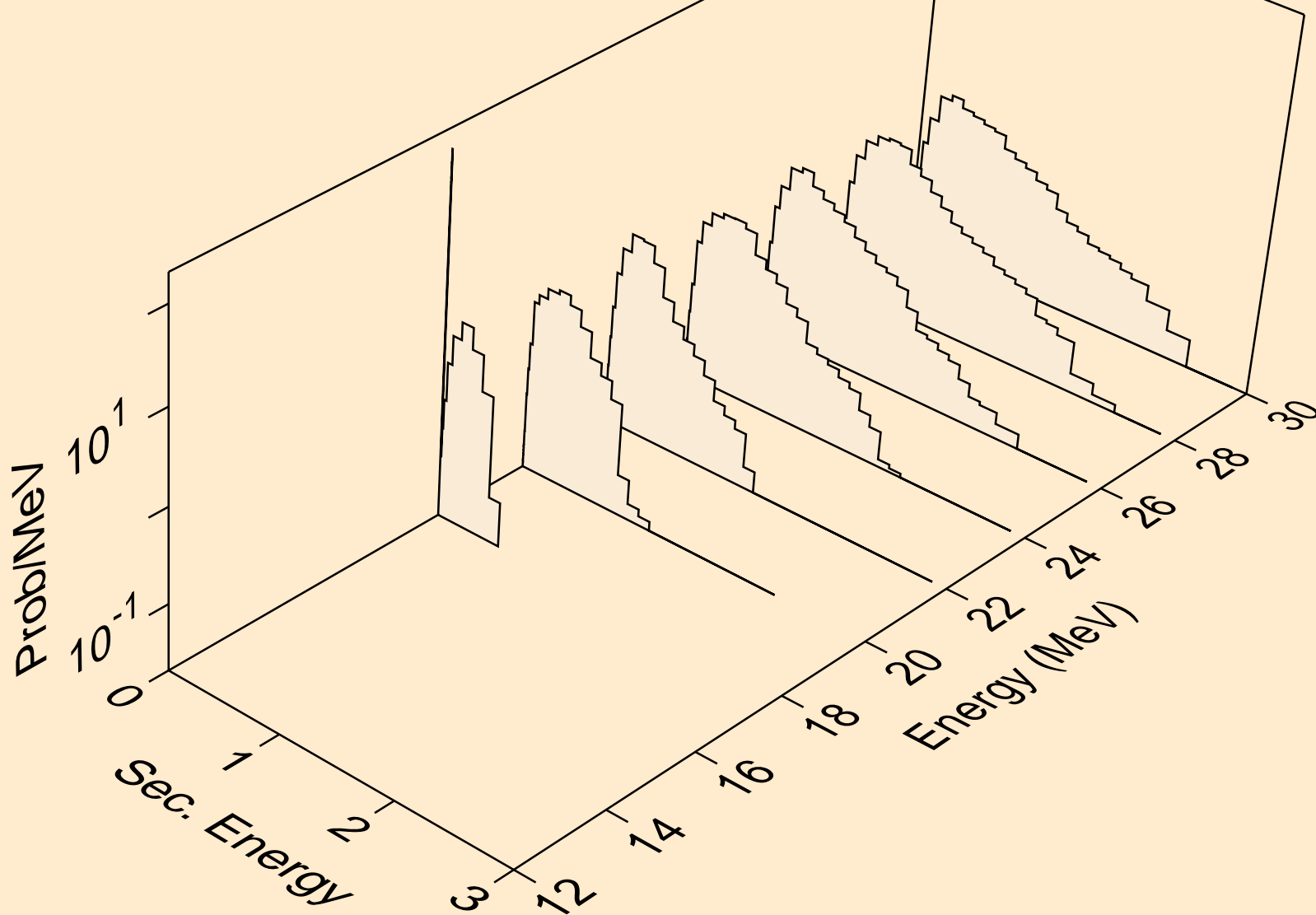
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



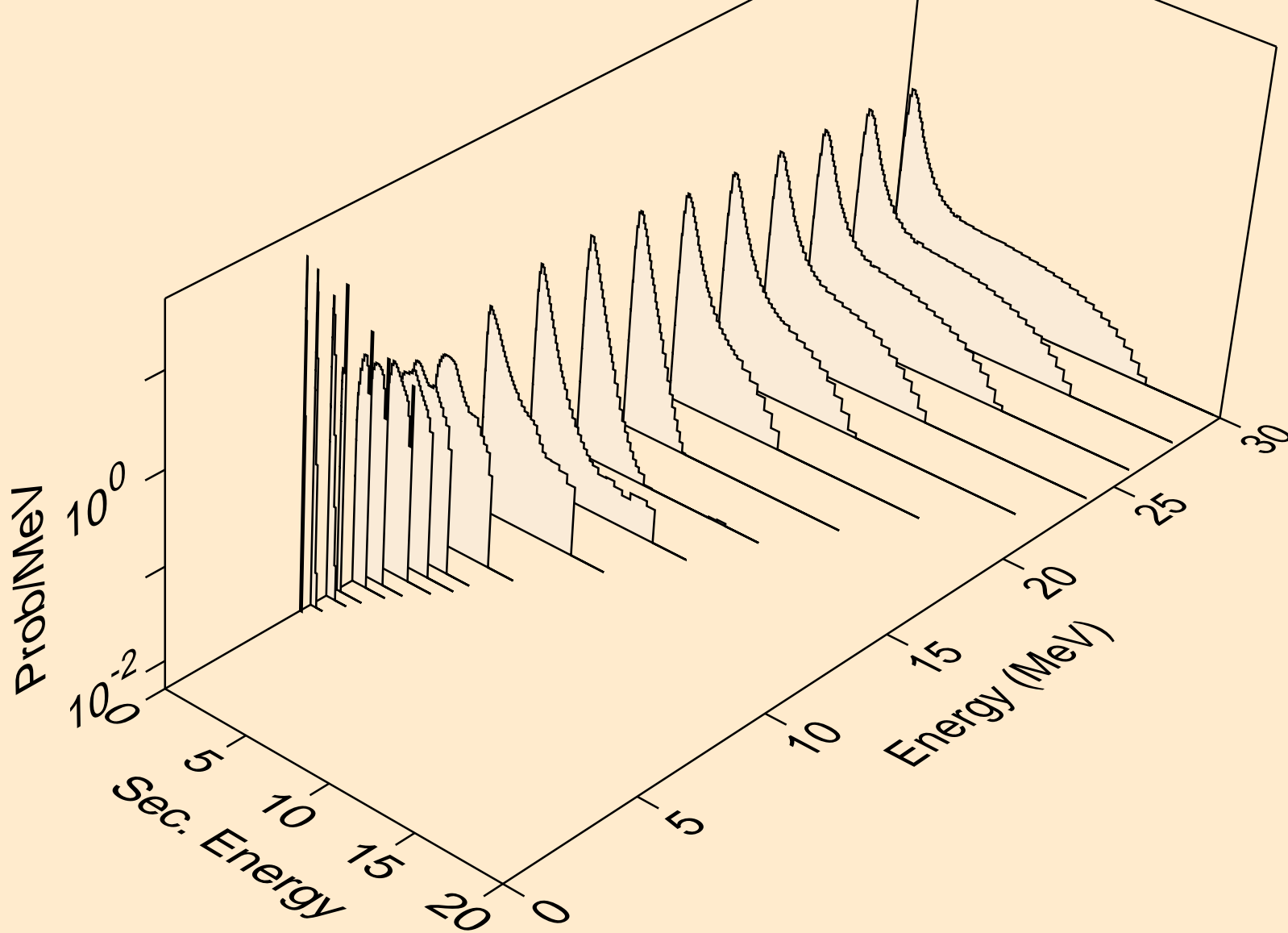
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



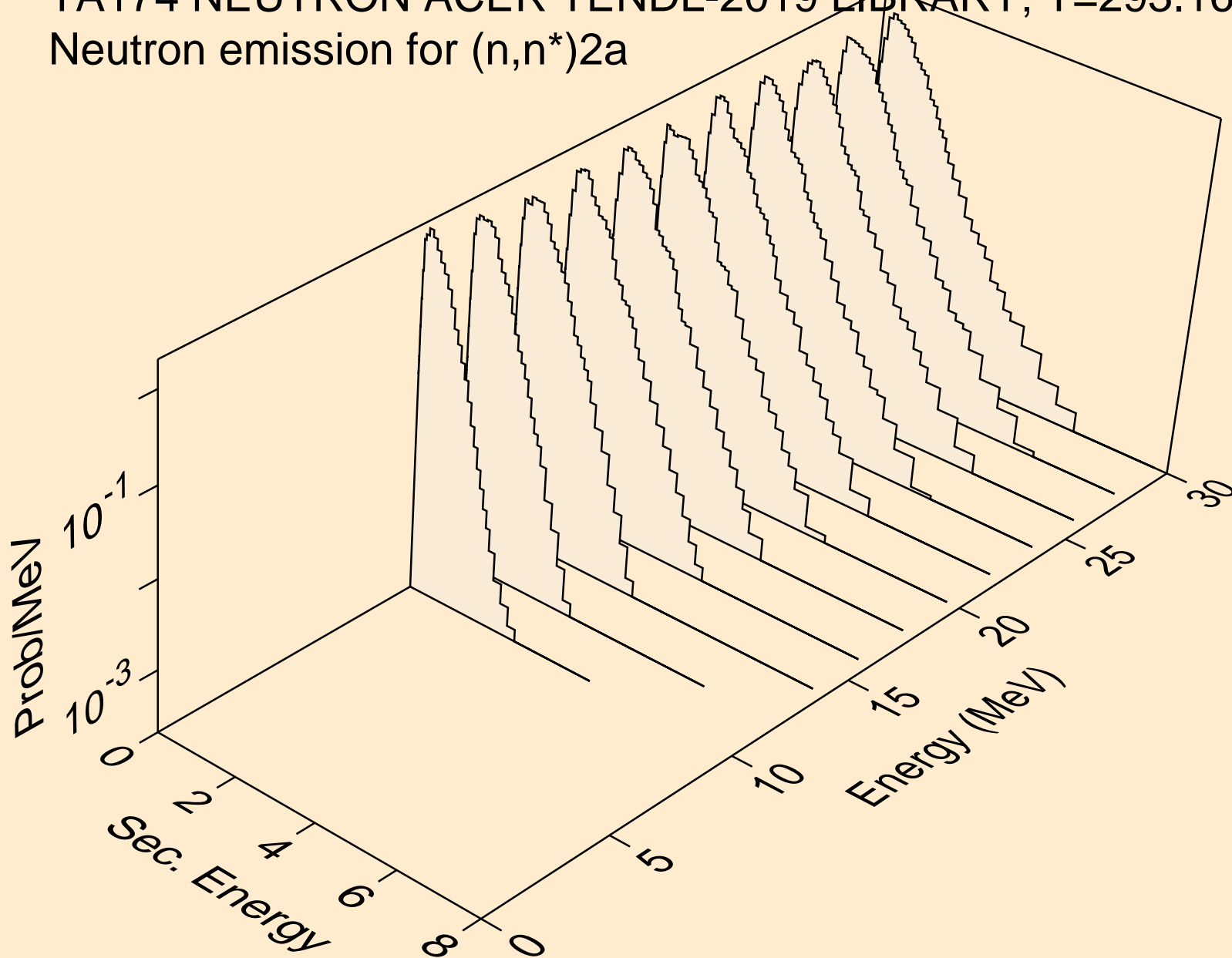
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



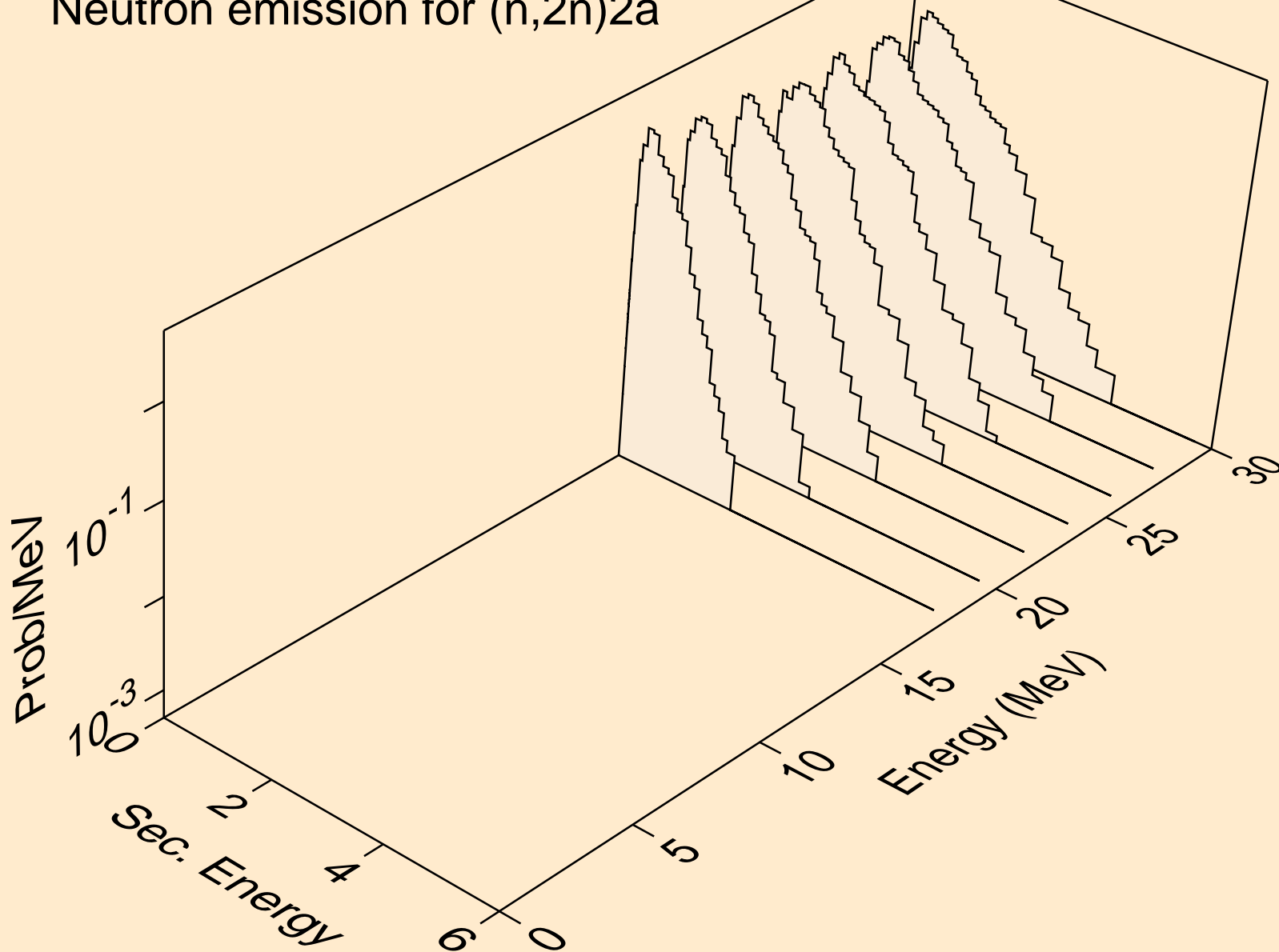
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

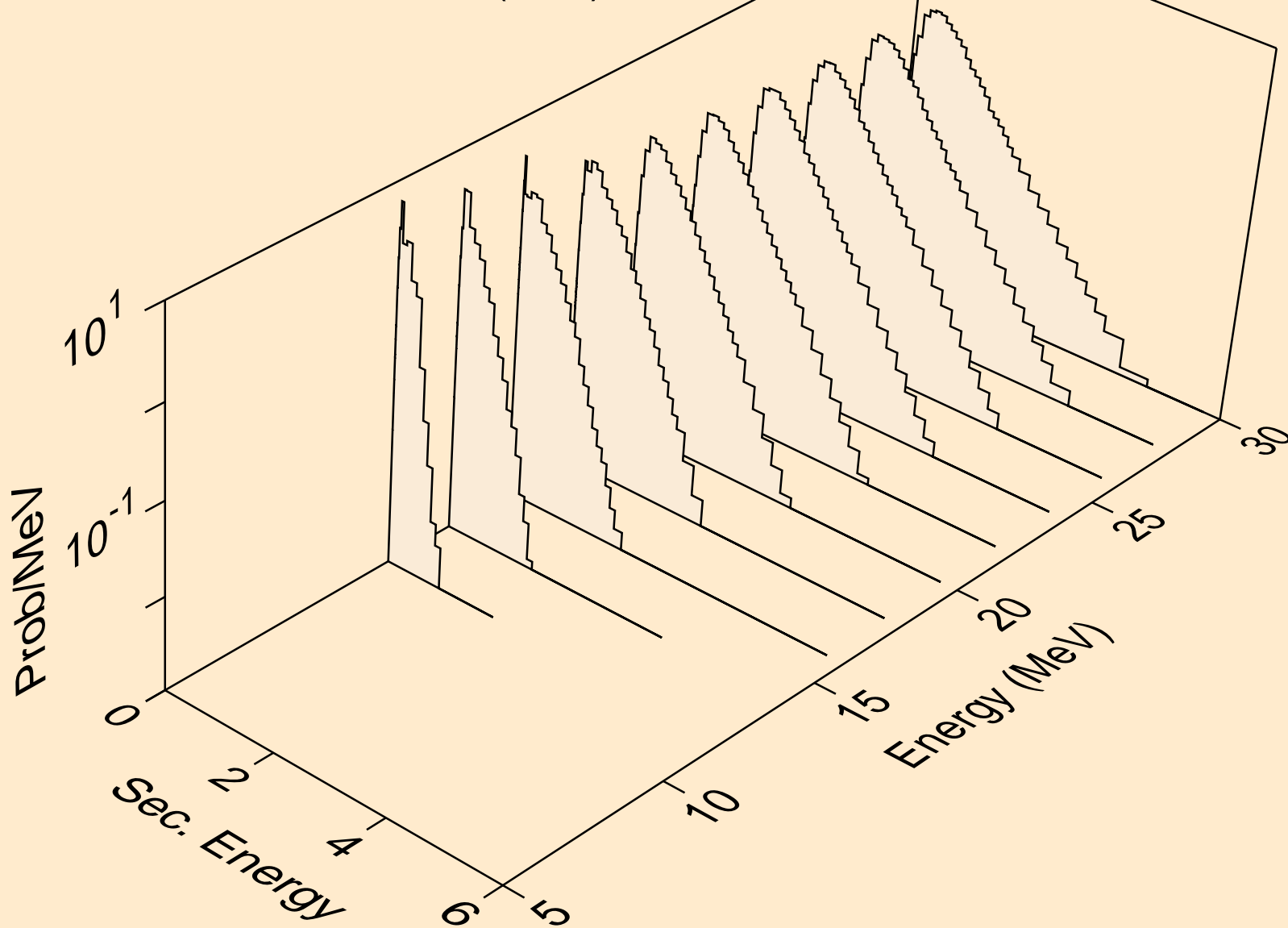


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)2a

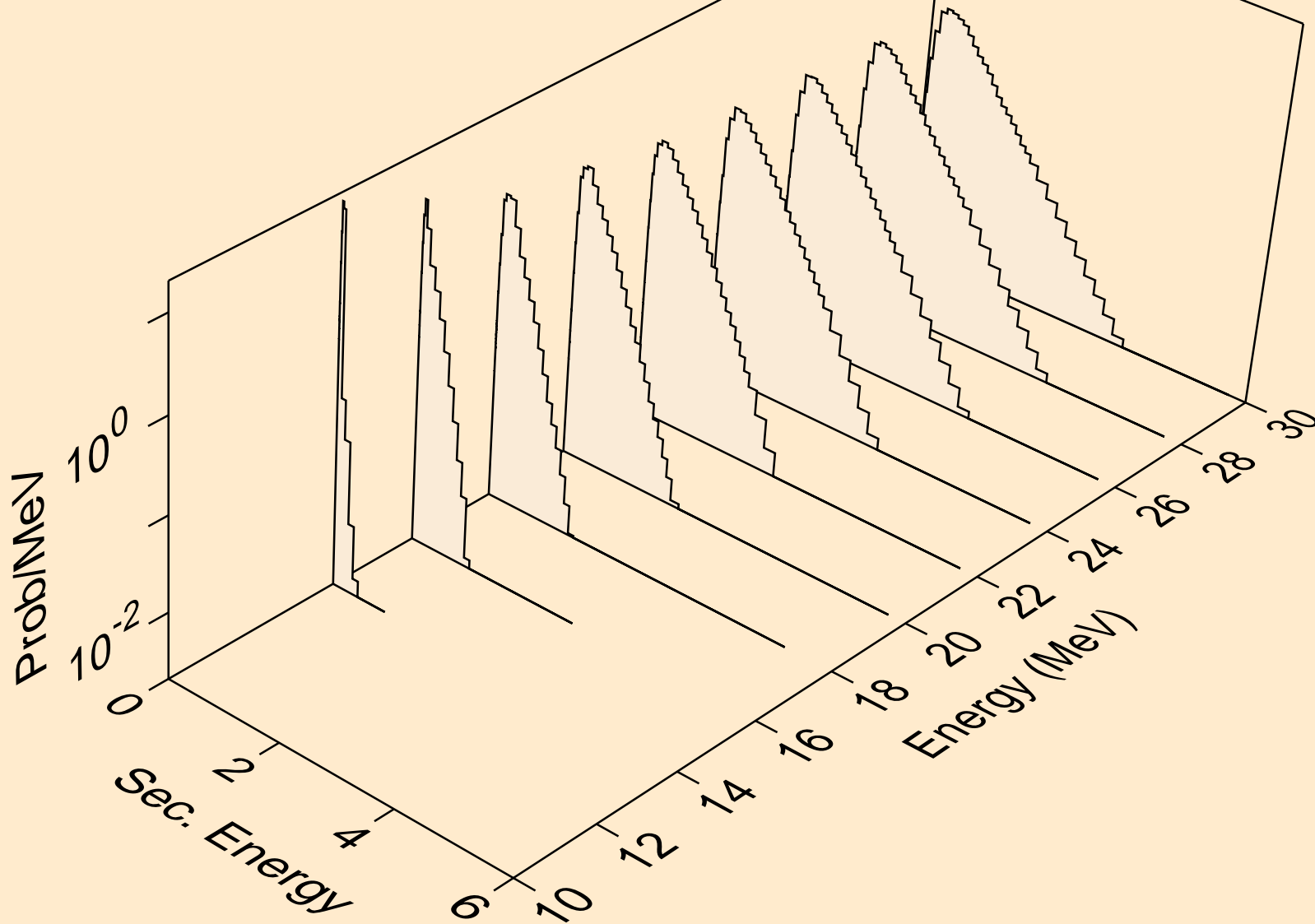




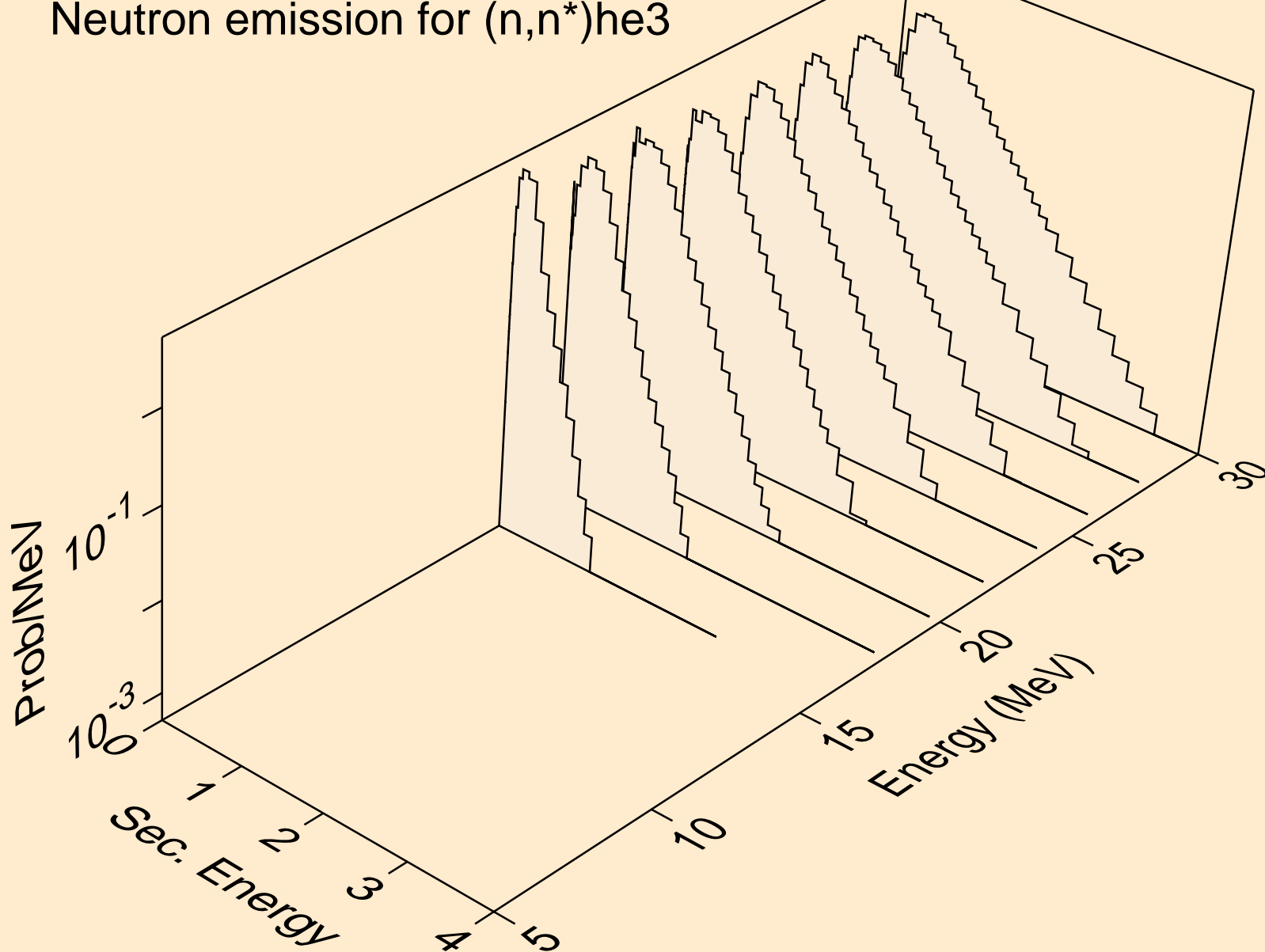
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



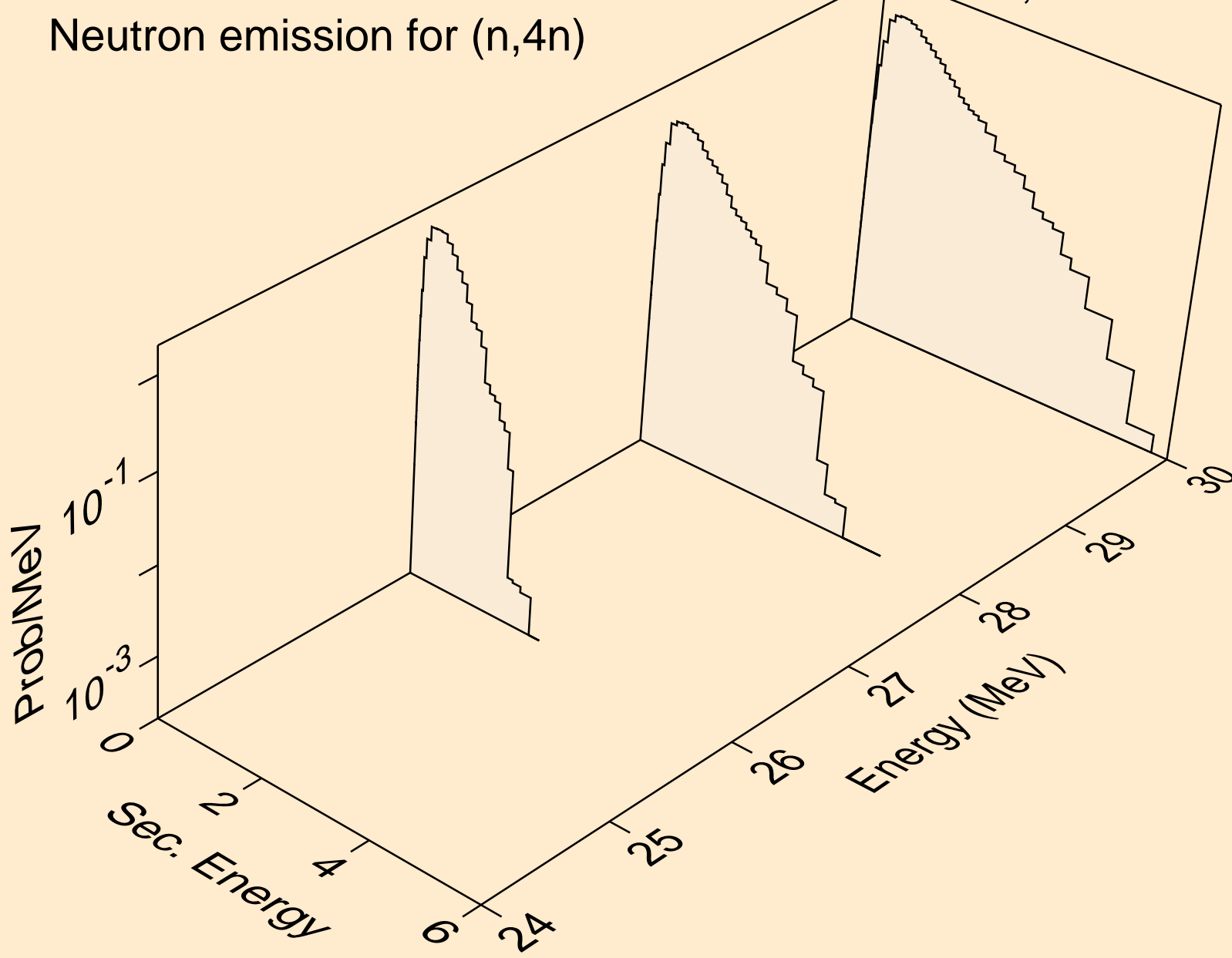
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



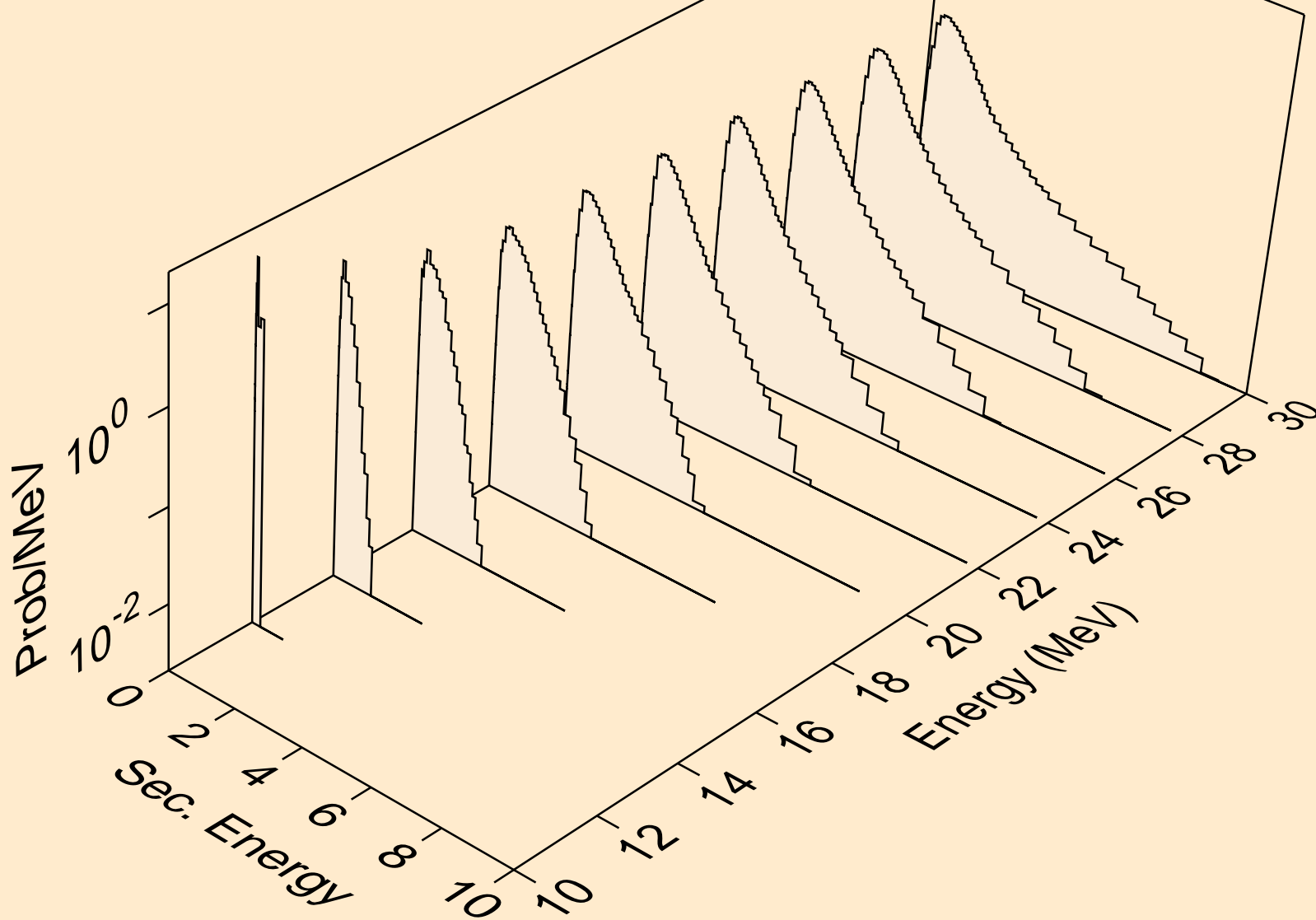
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



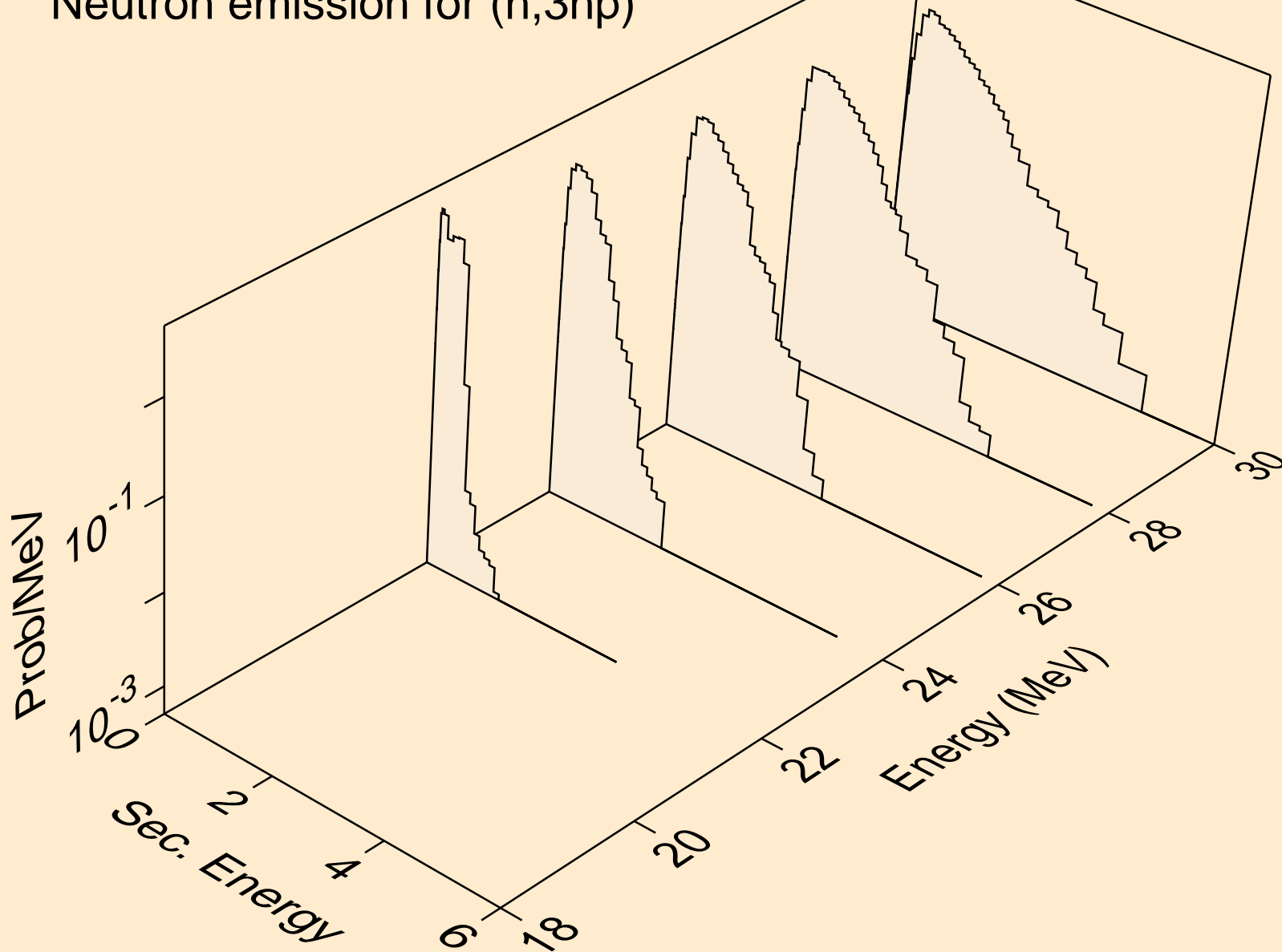
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



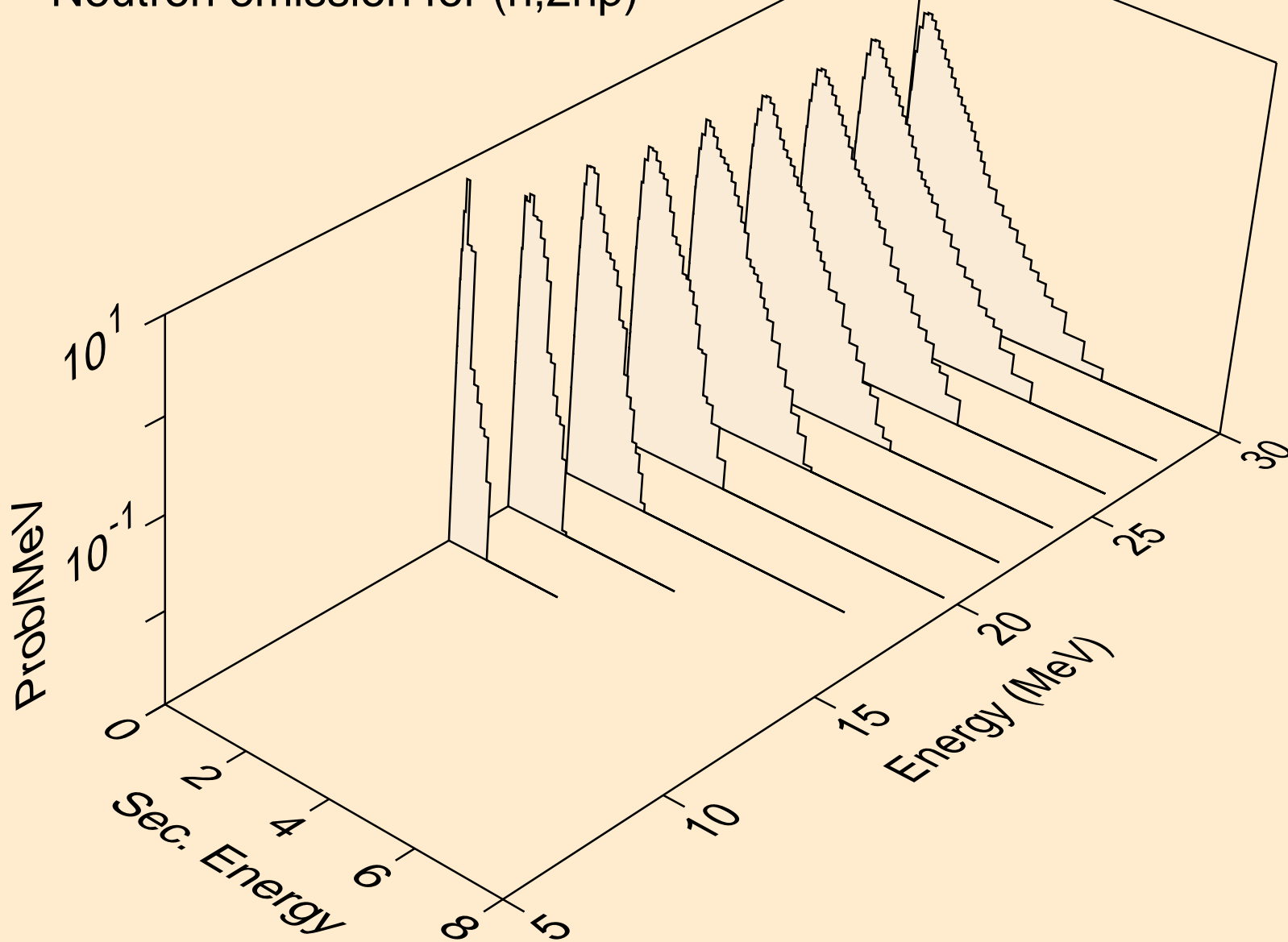
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



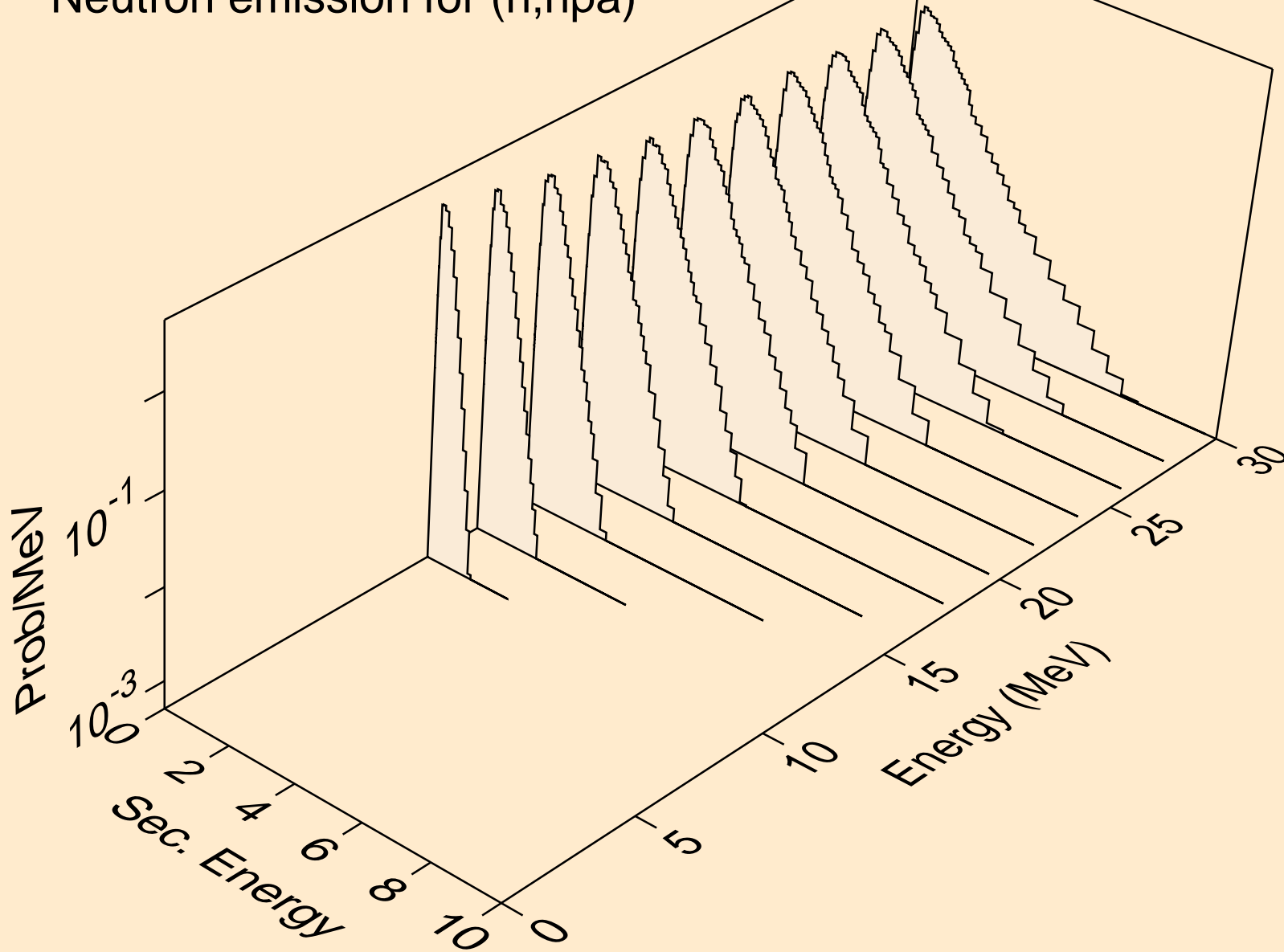
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

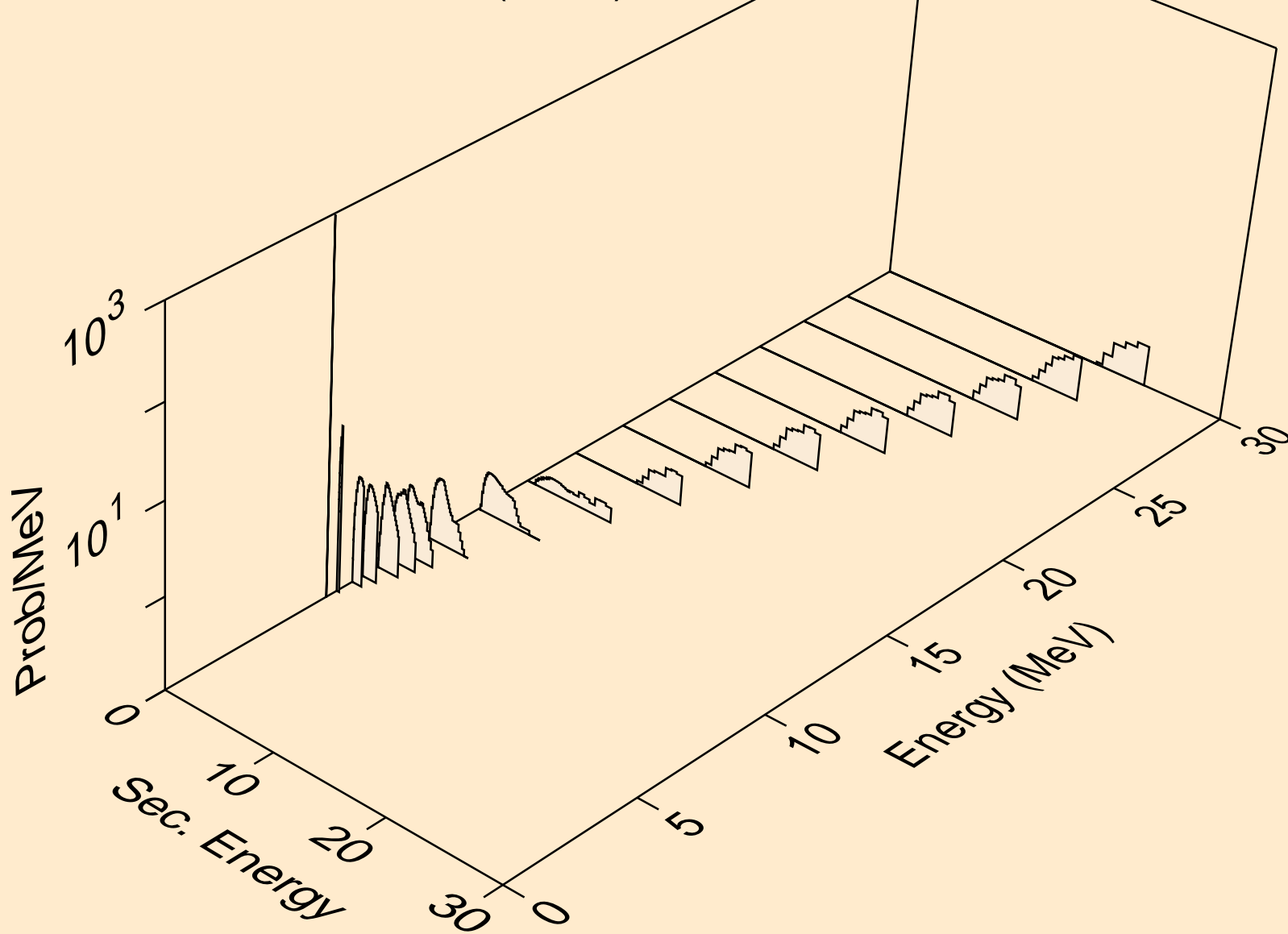


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

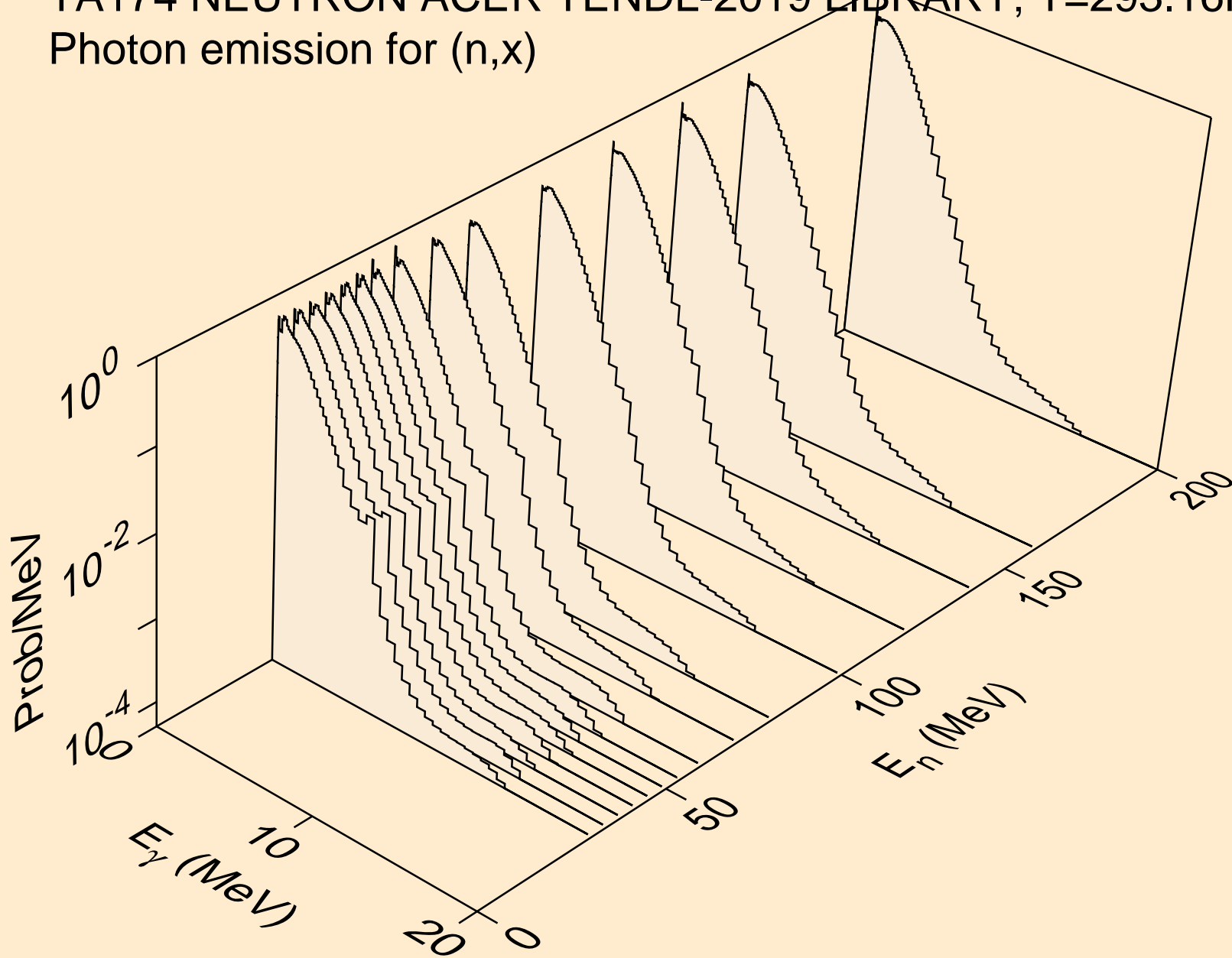




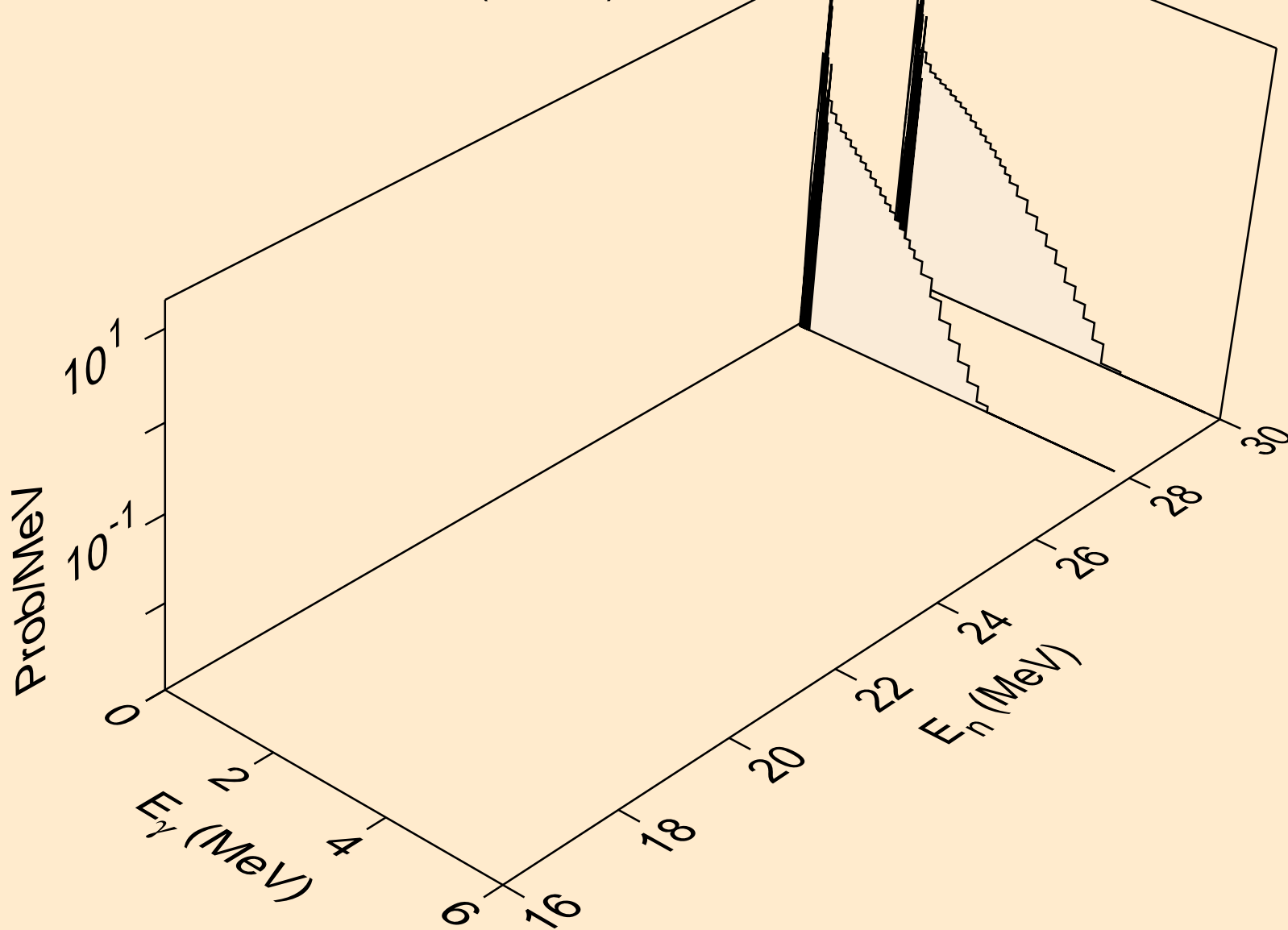
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



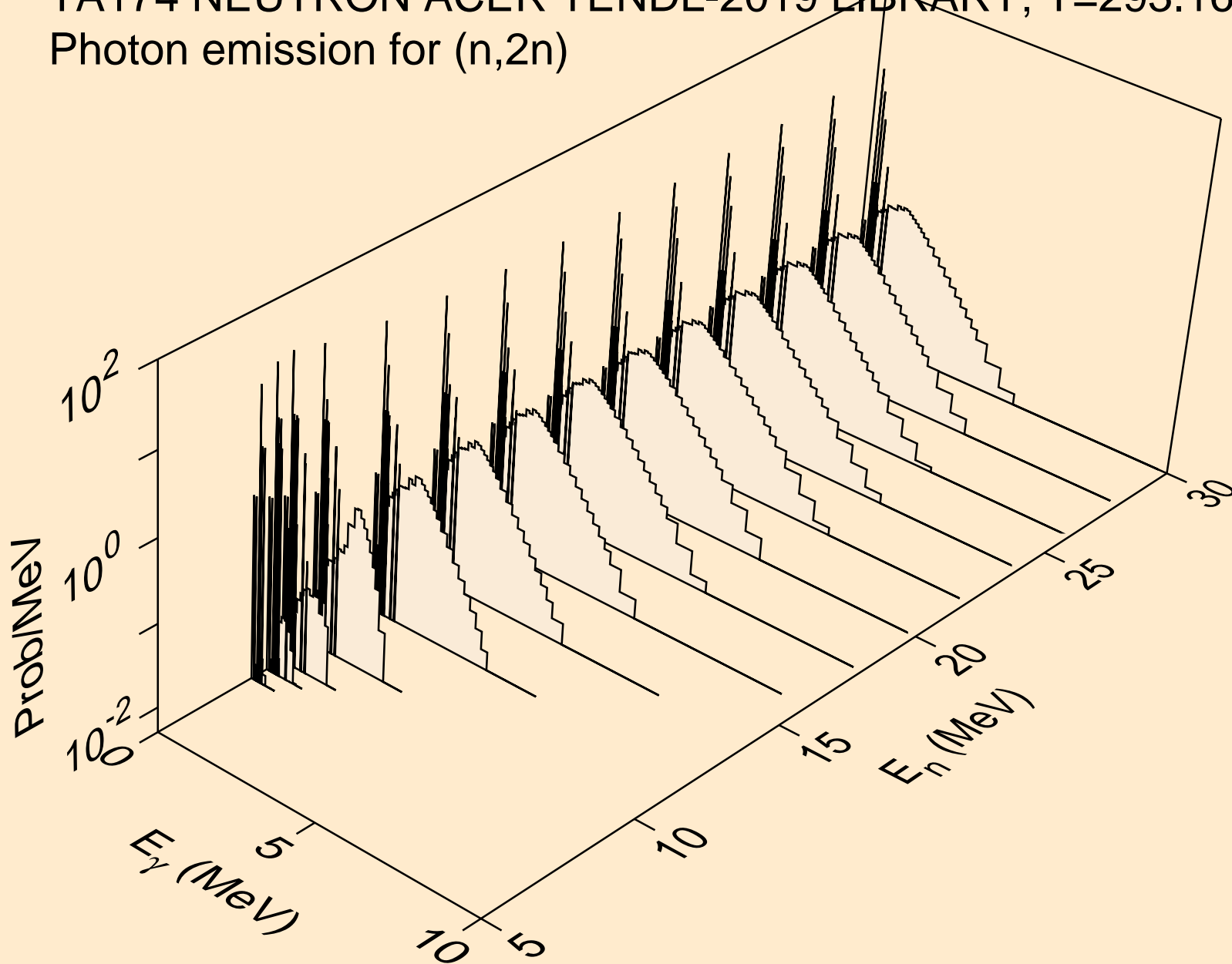
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



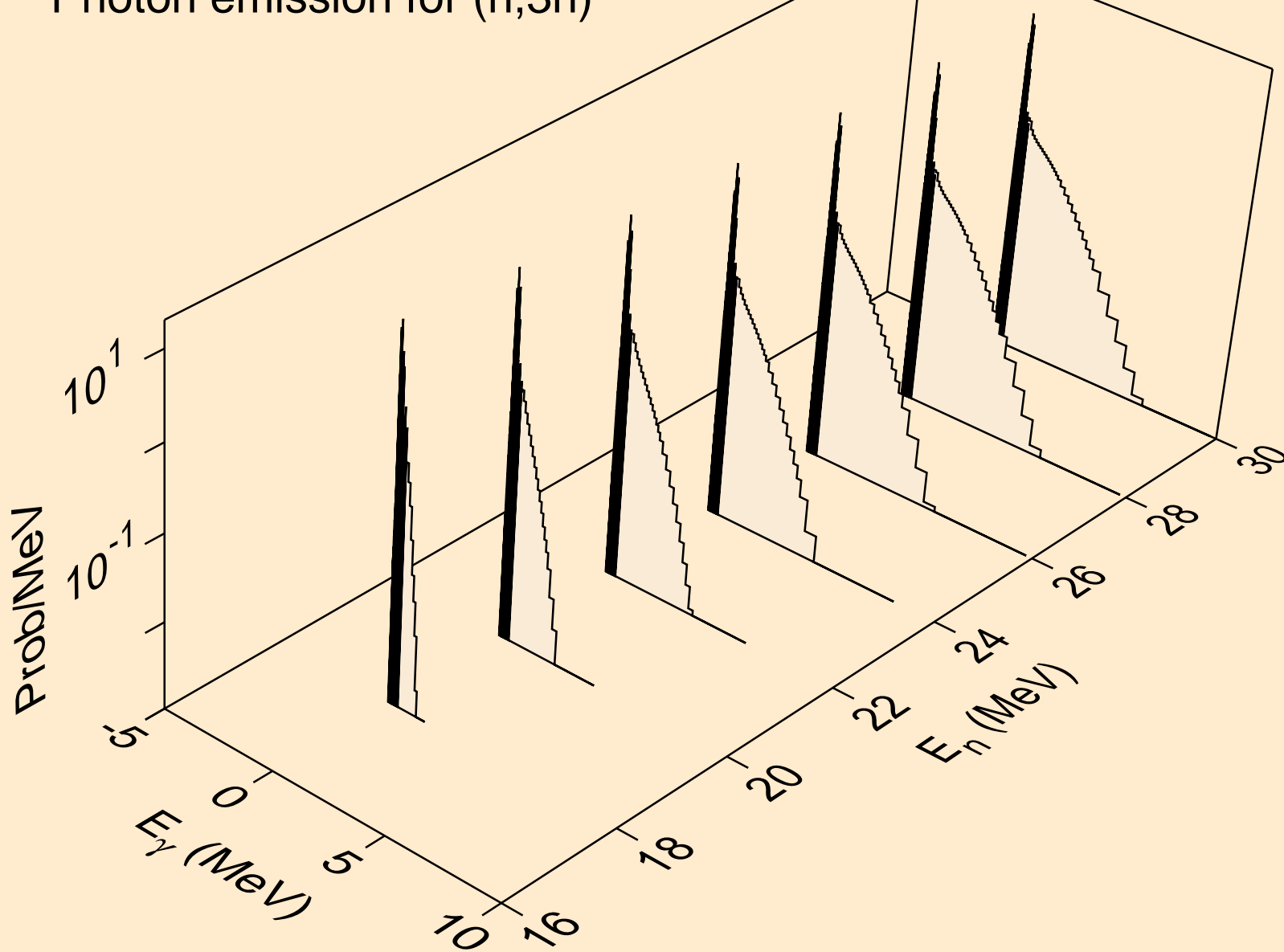
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



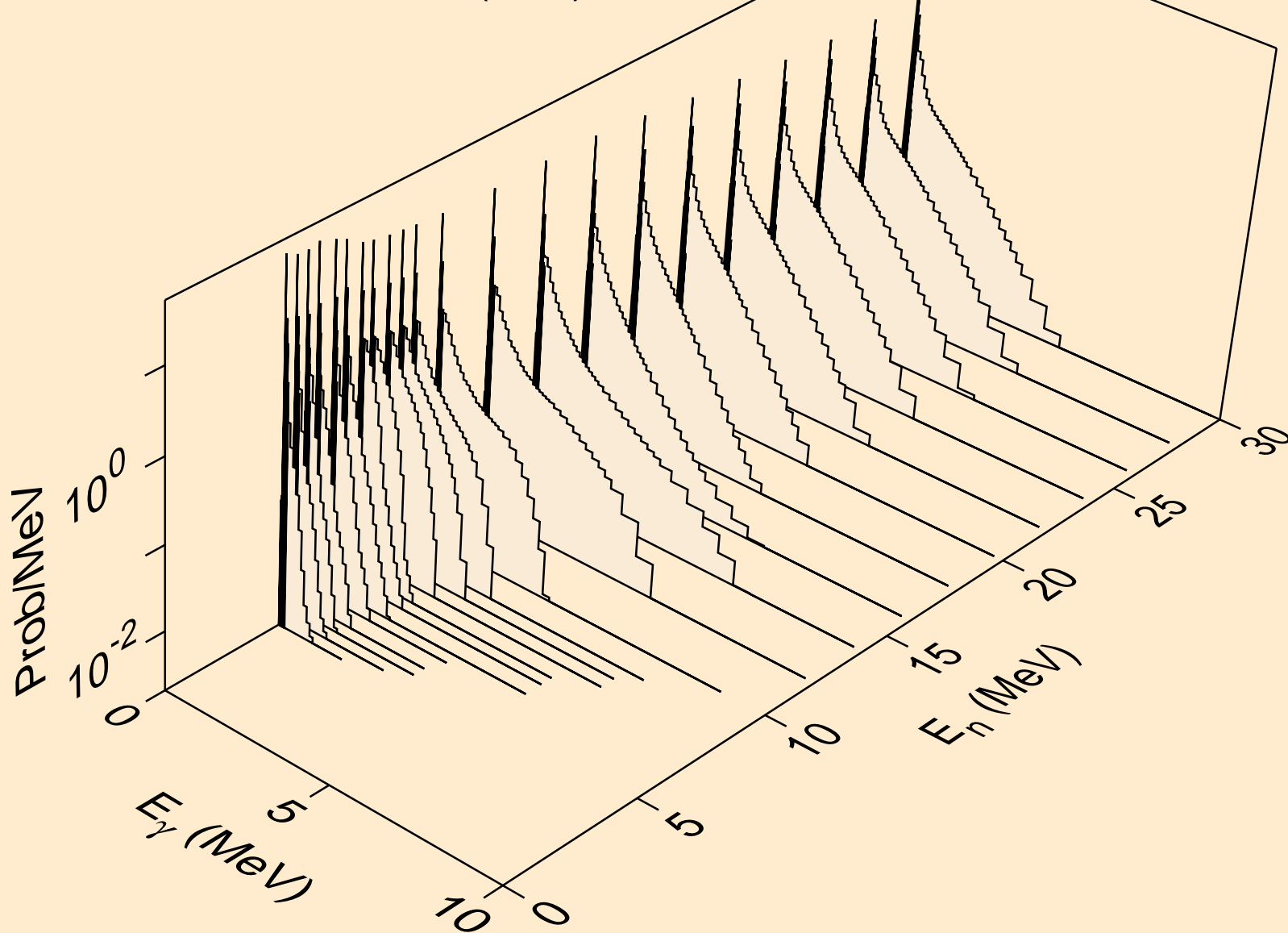
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



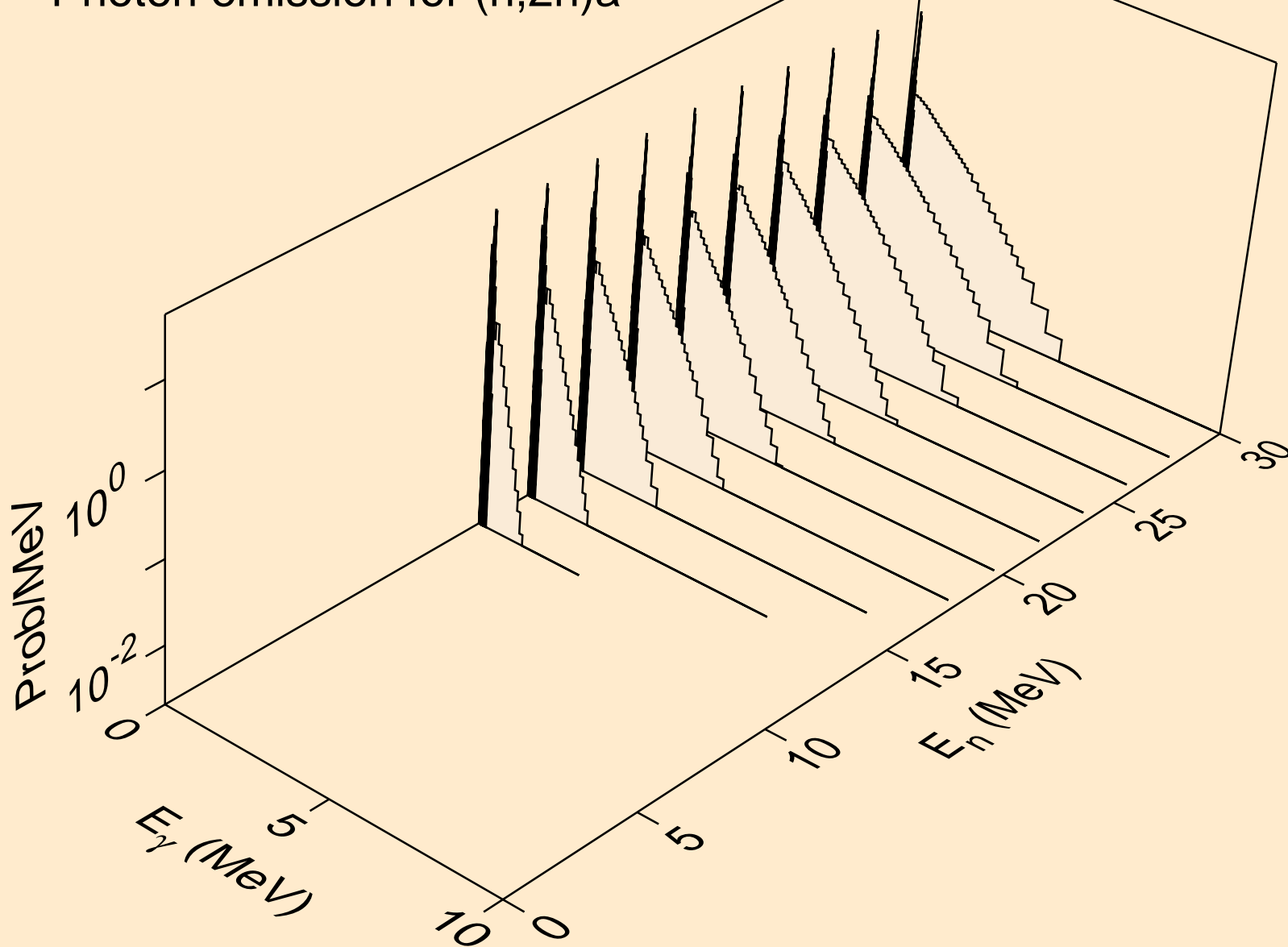
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



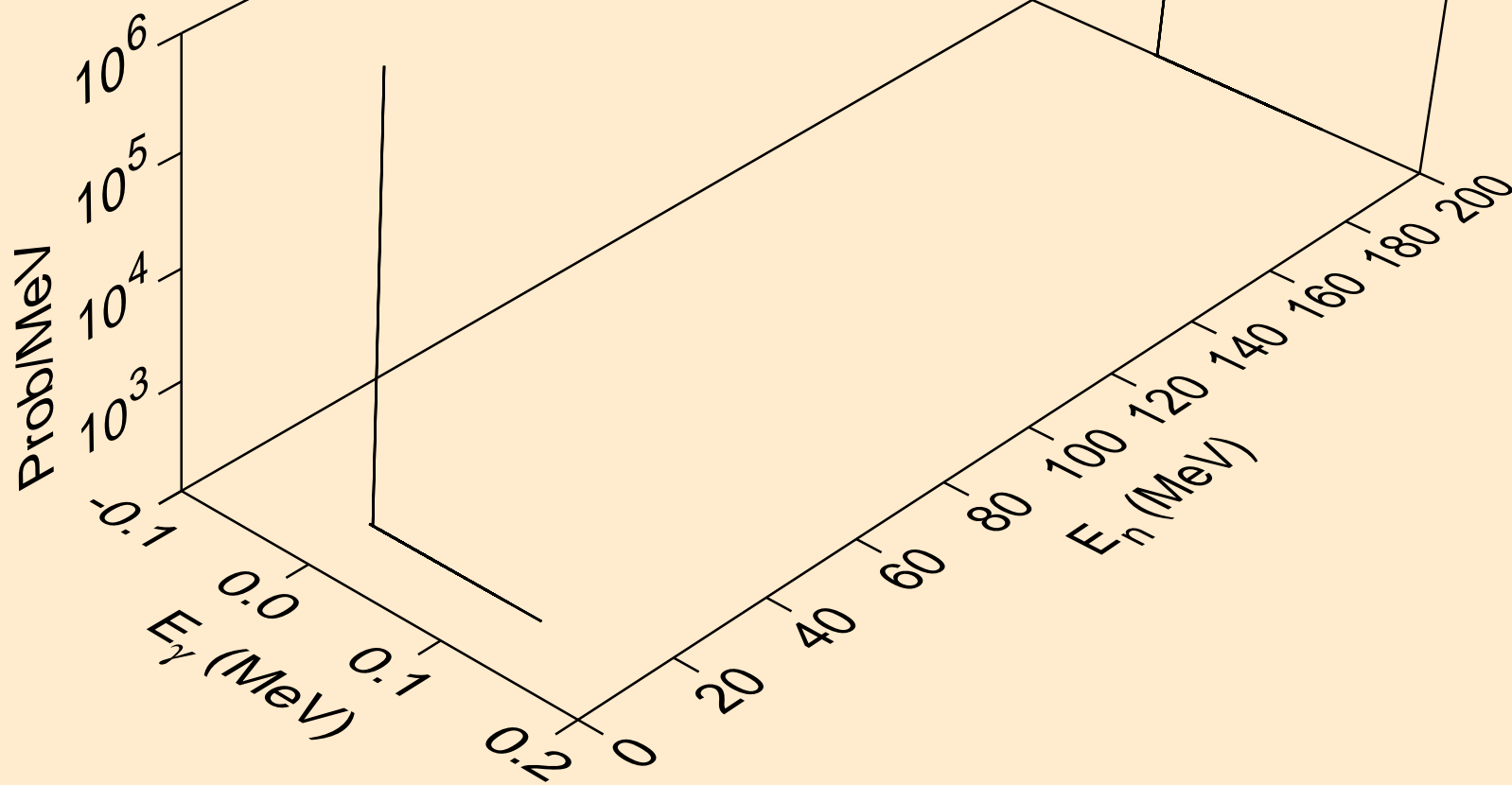
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

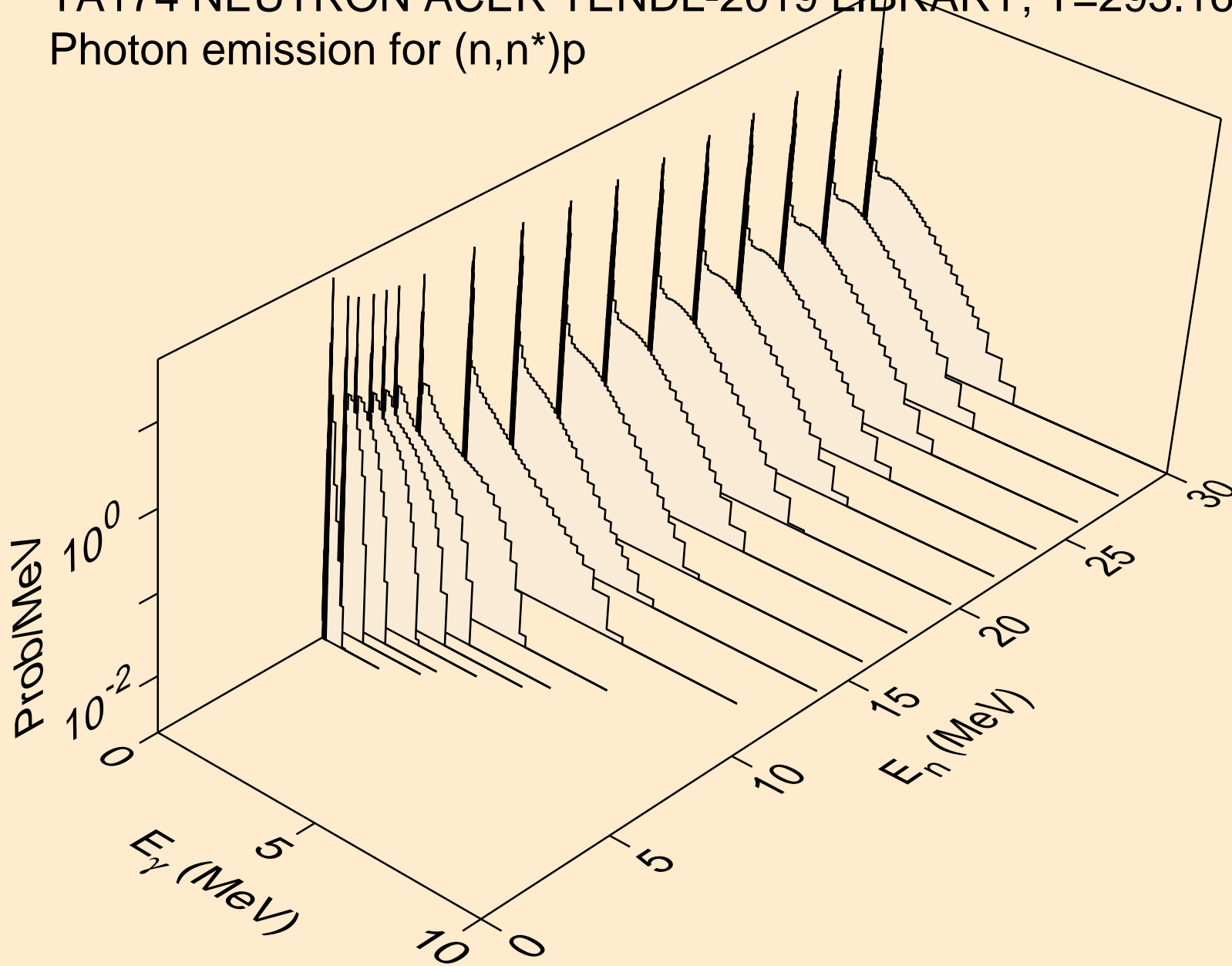


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a

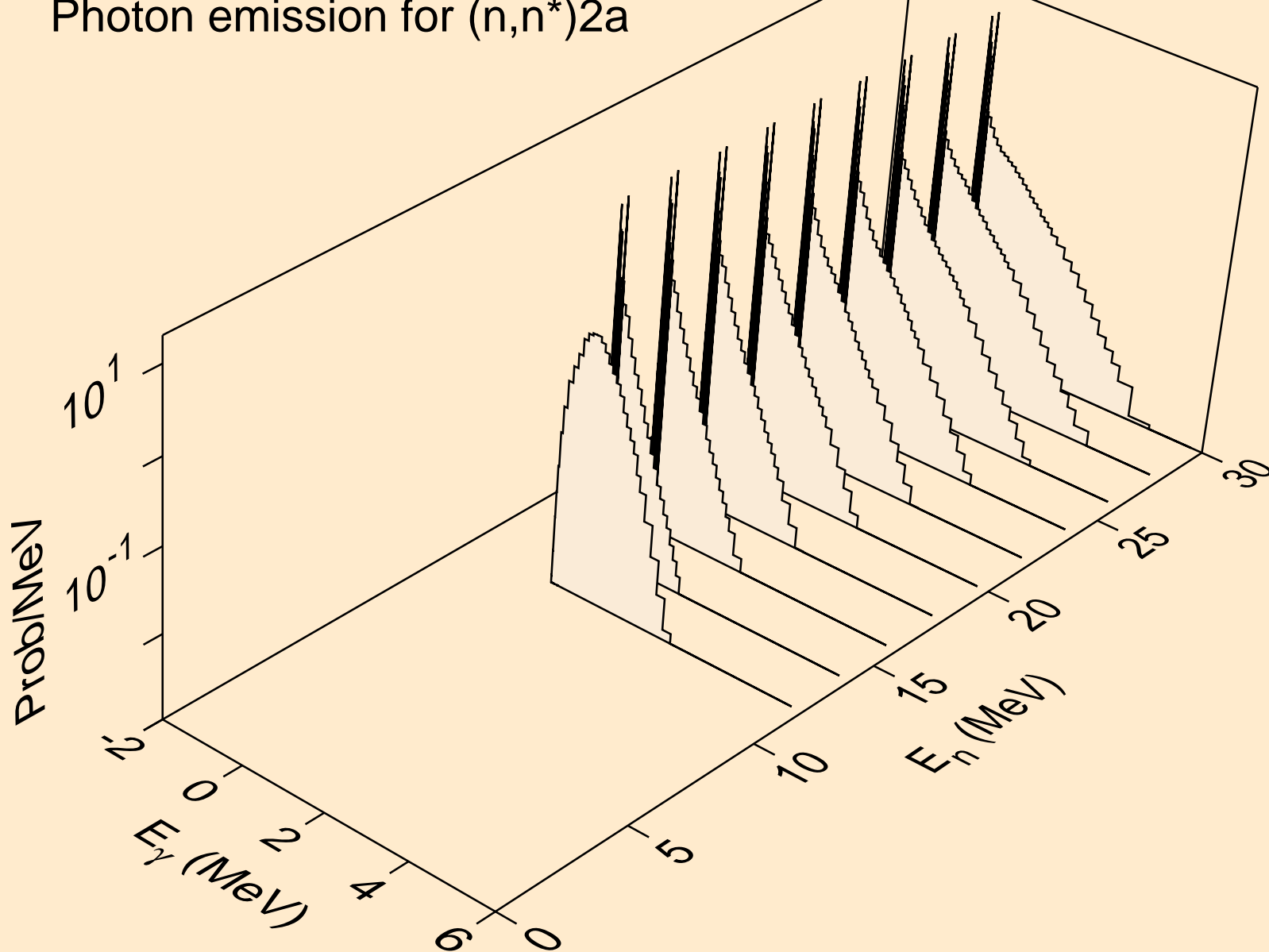




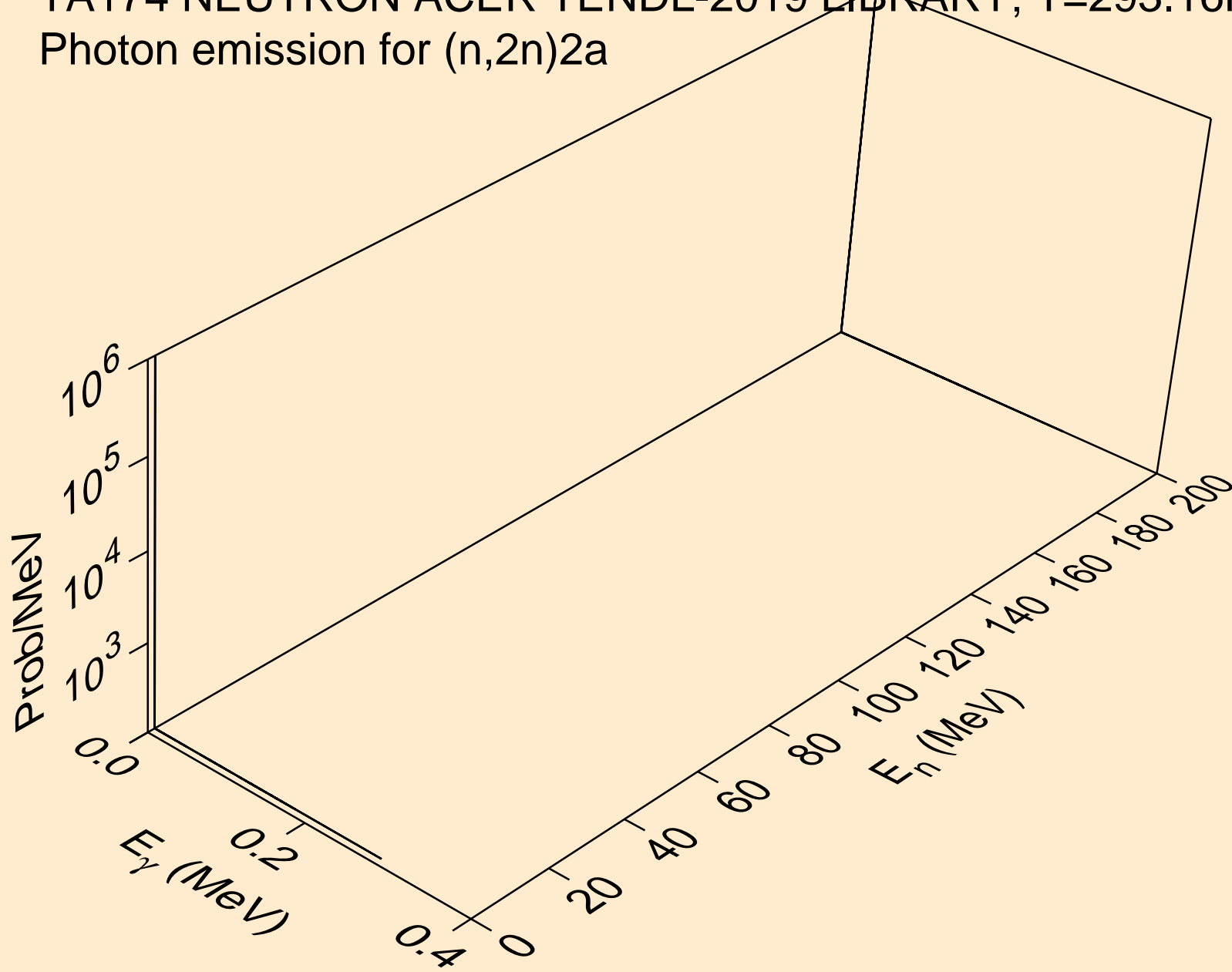
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



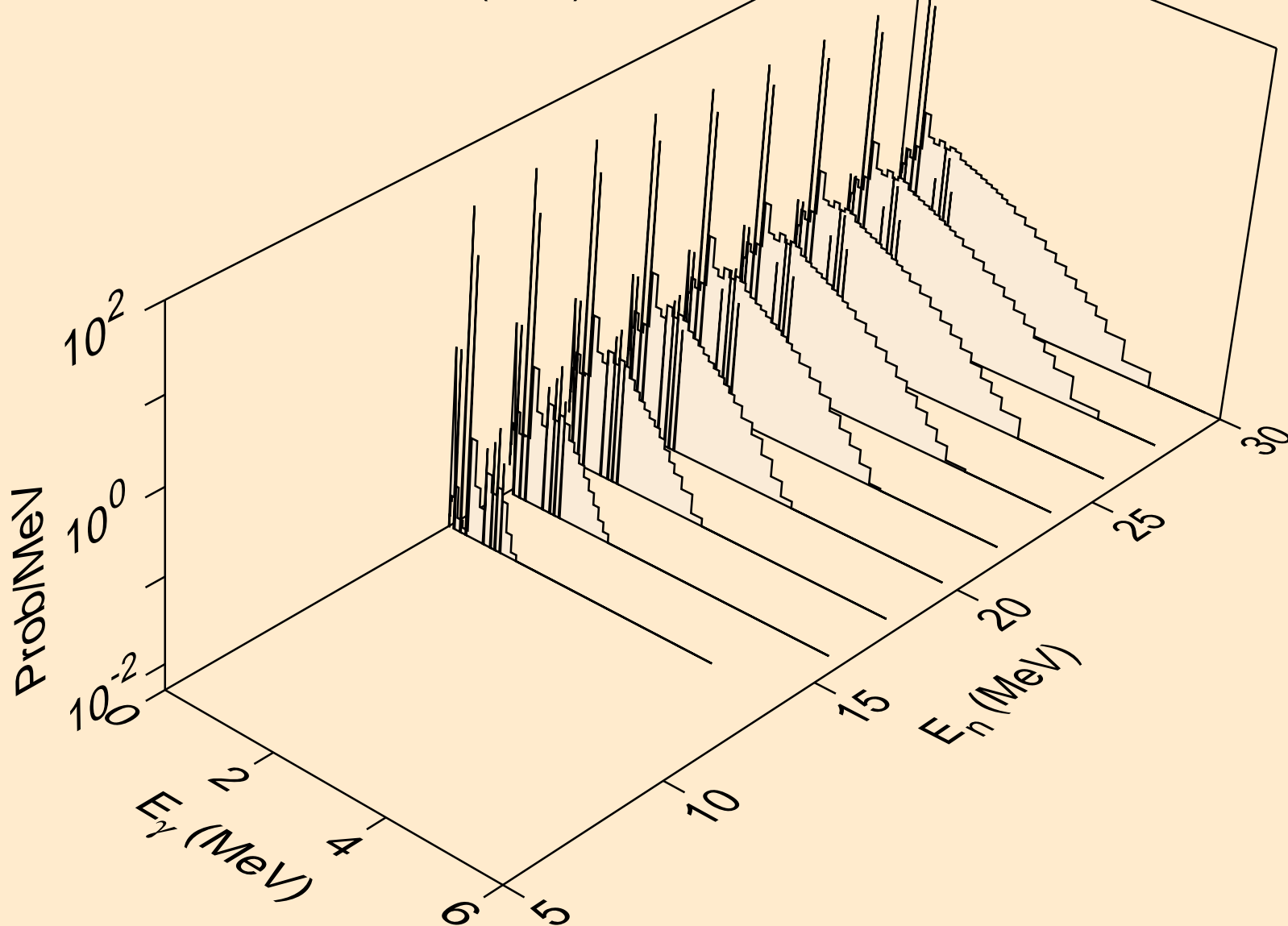
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



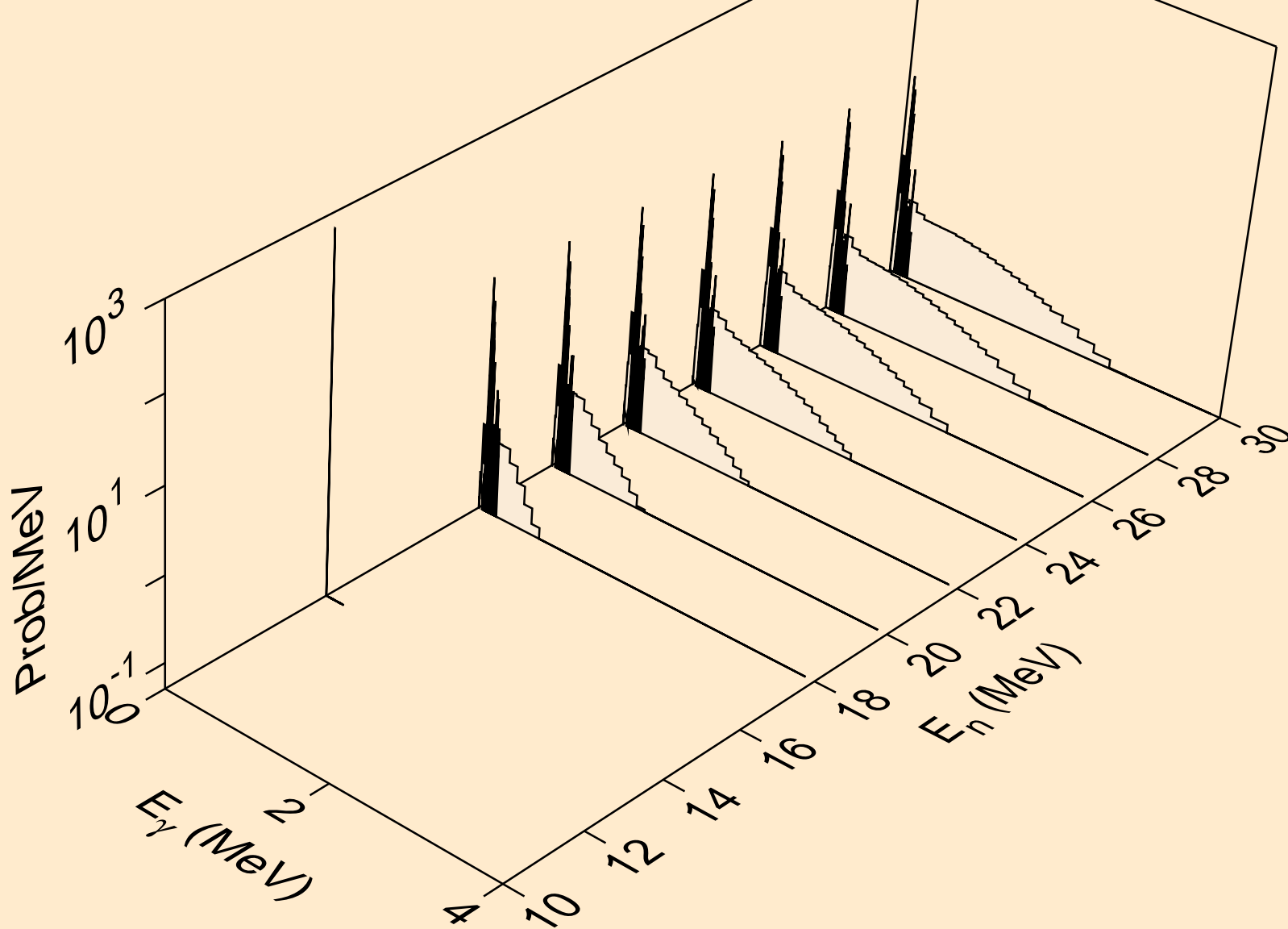
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)2a



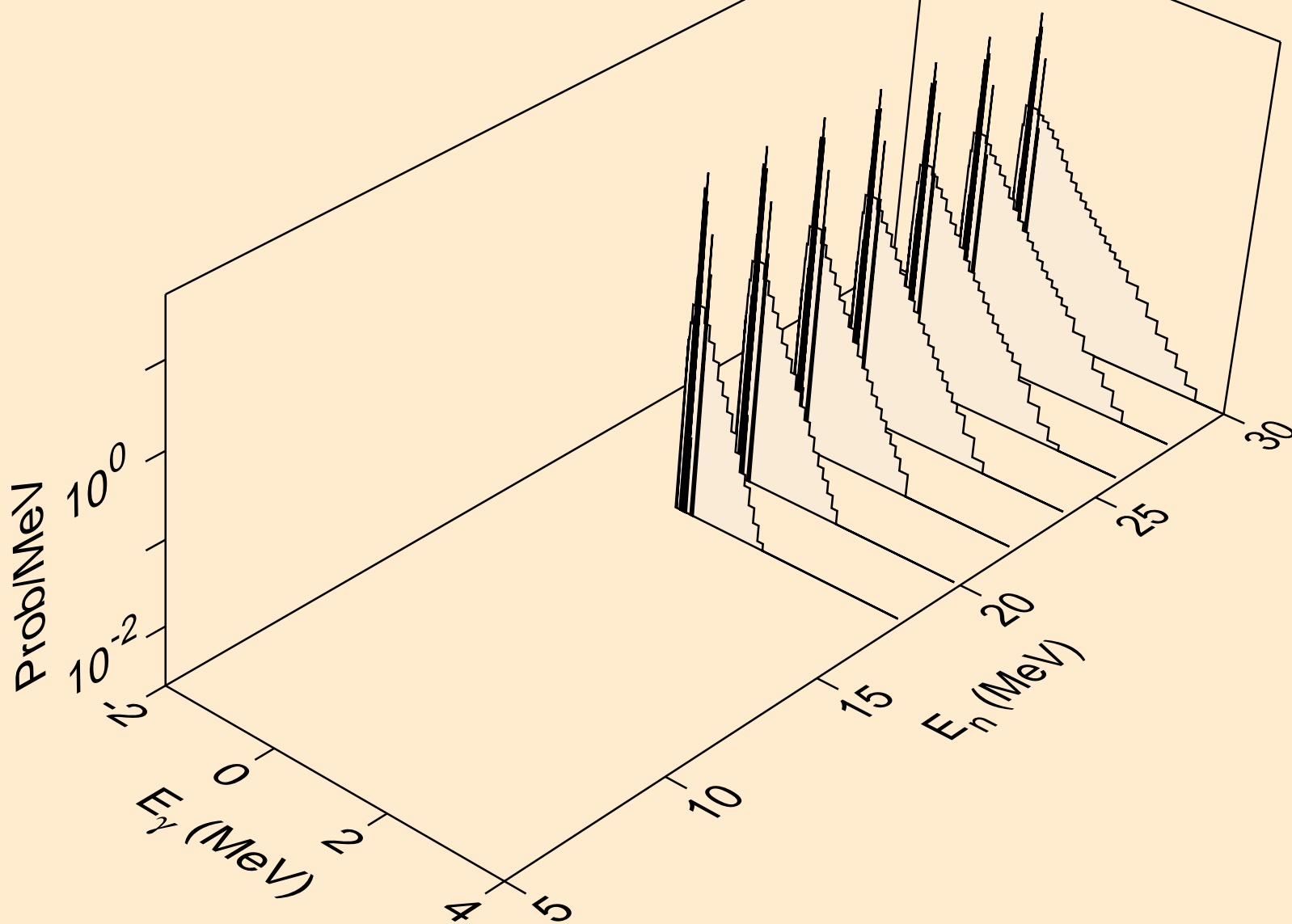
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



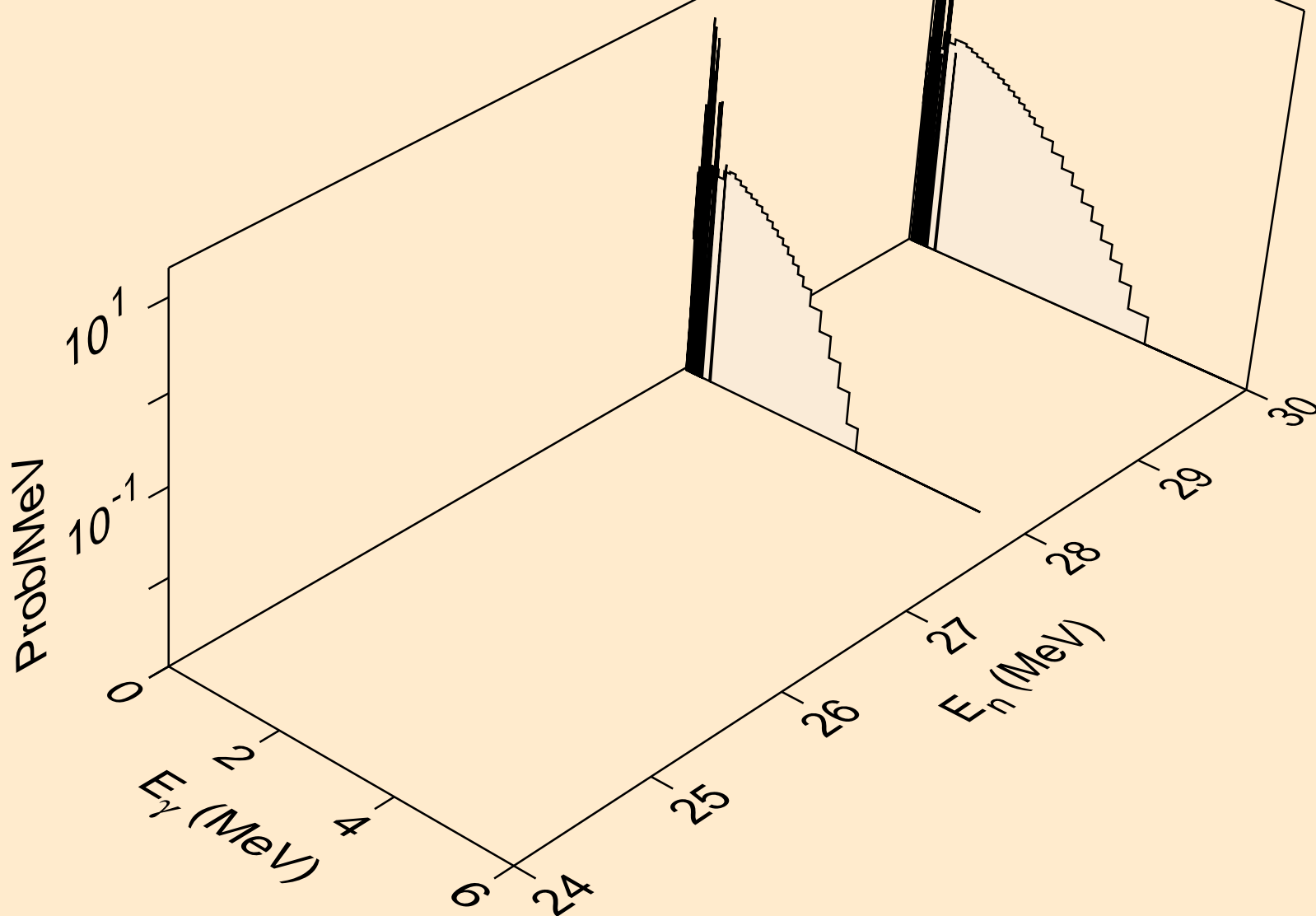
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



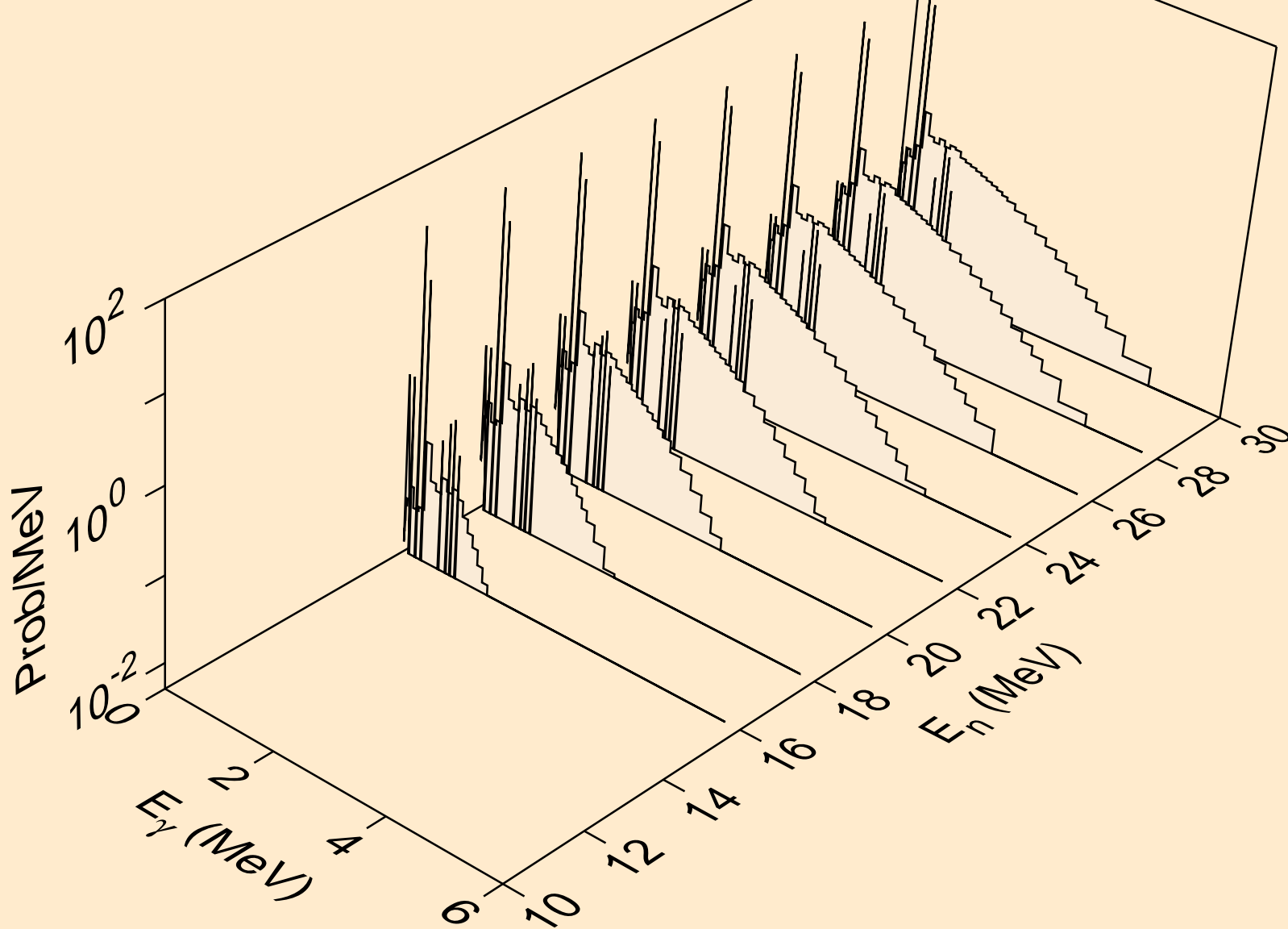
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

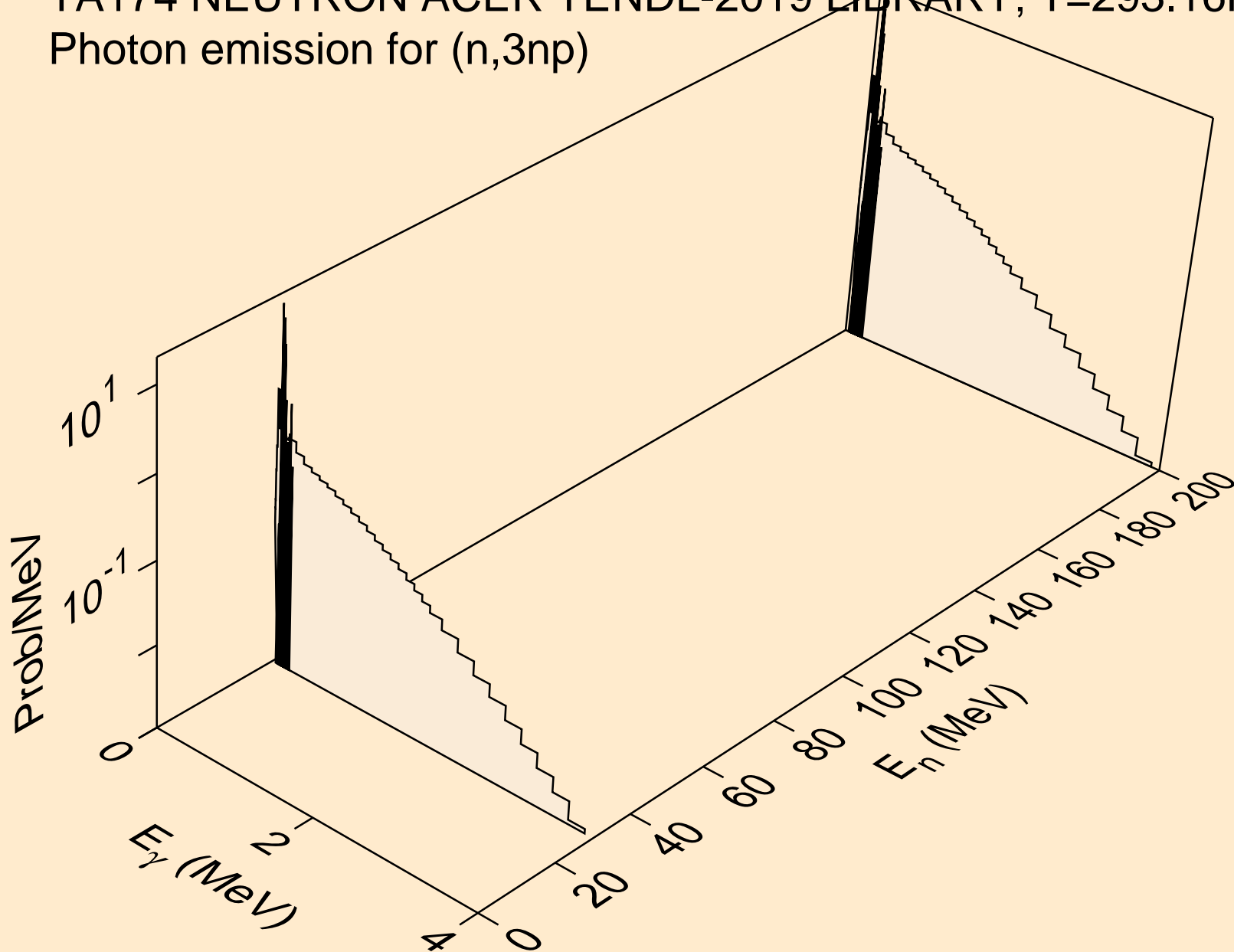


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)

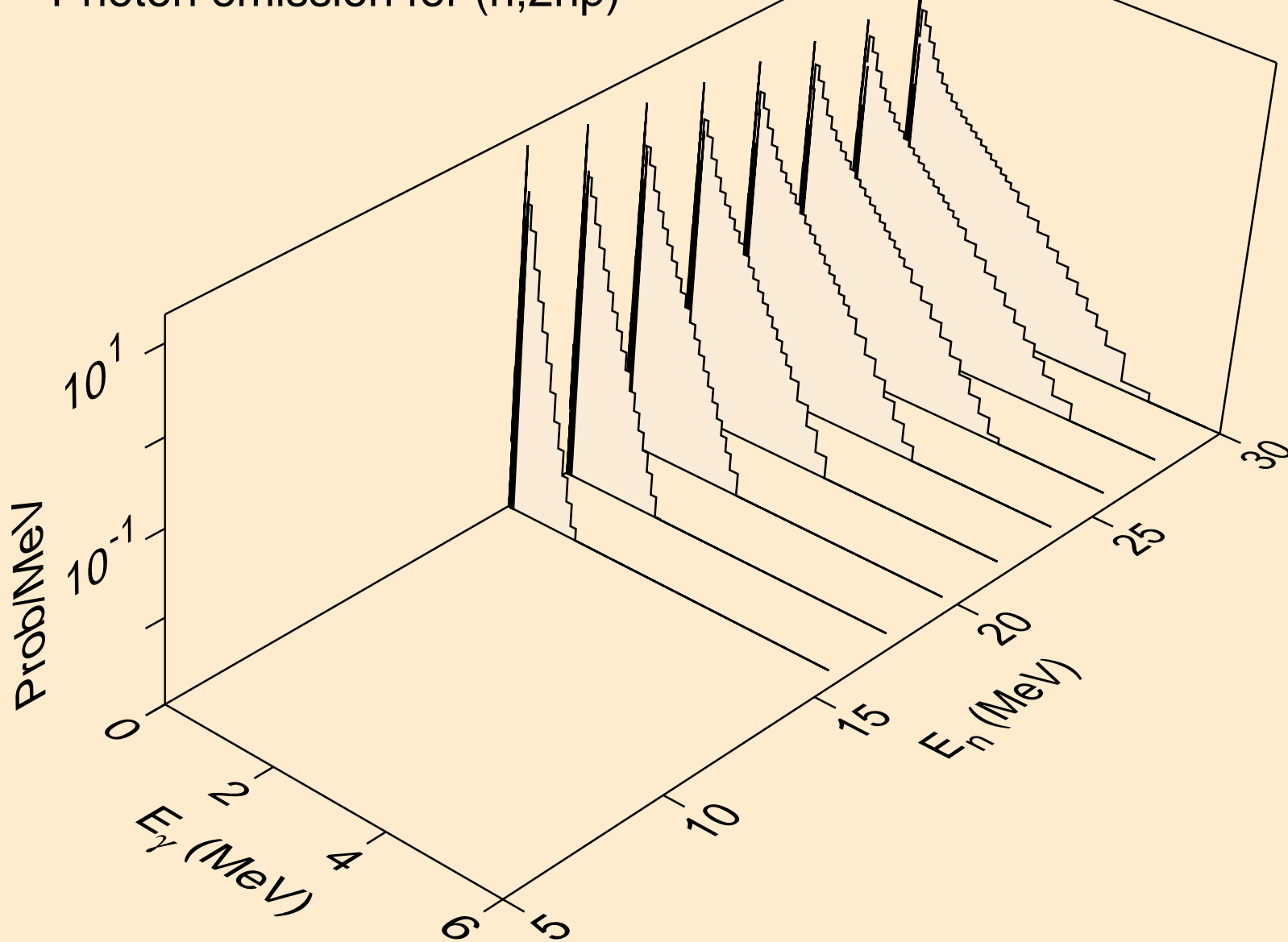




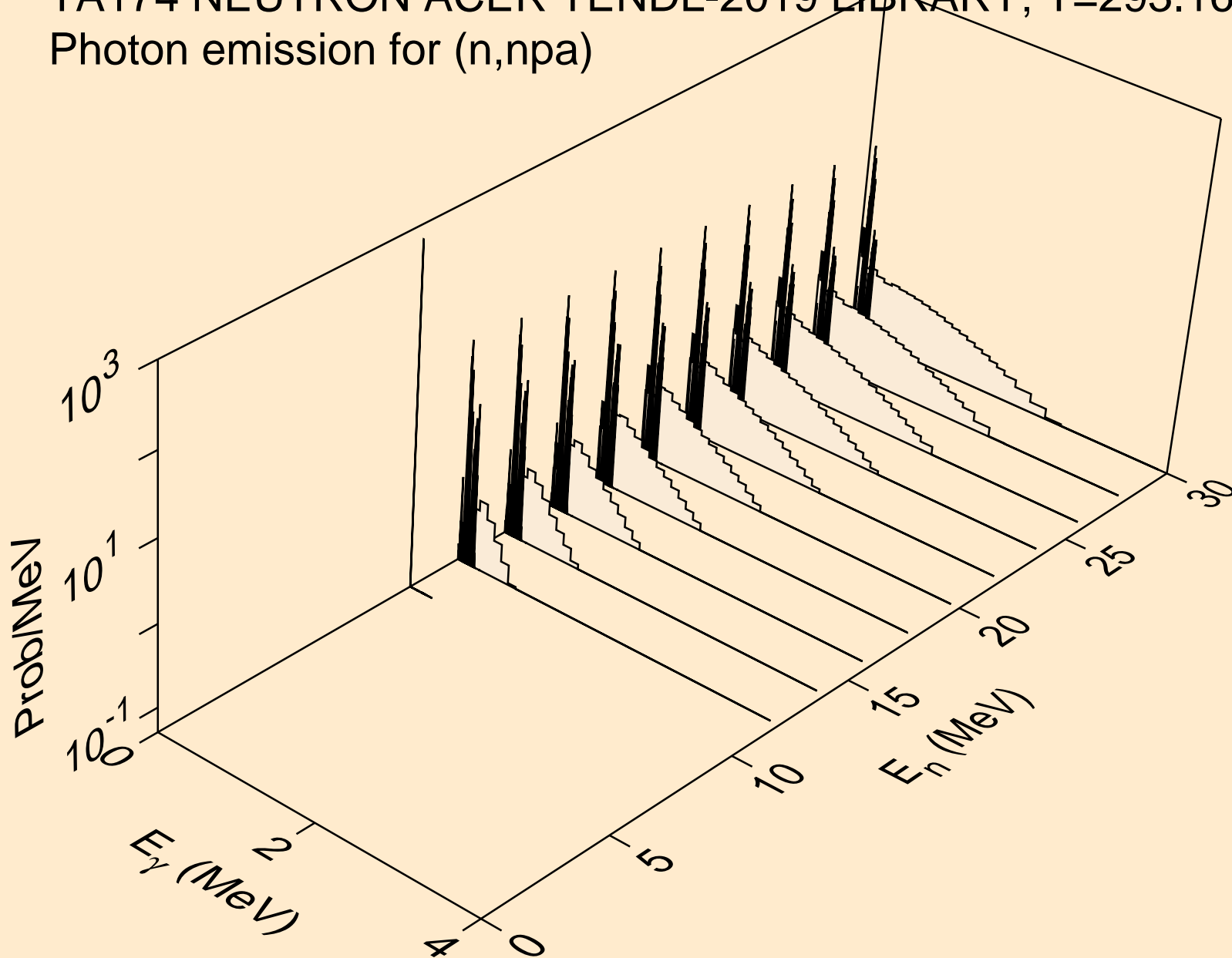
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



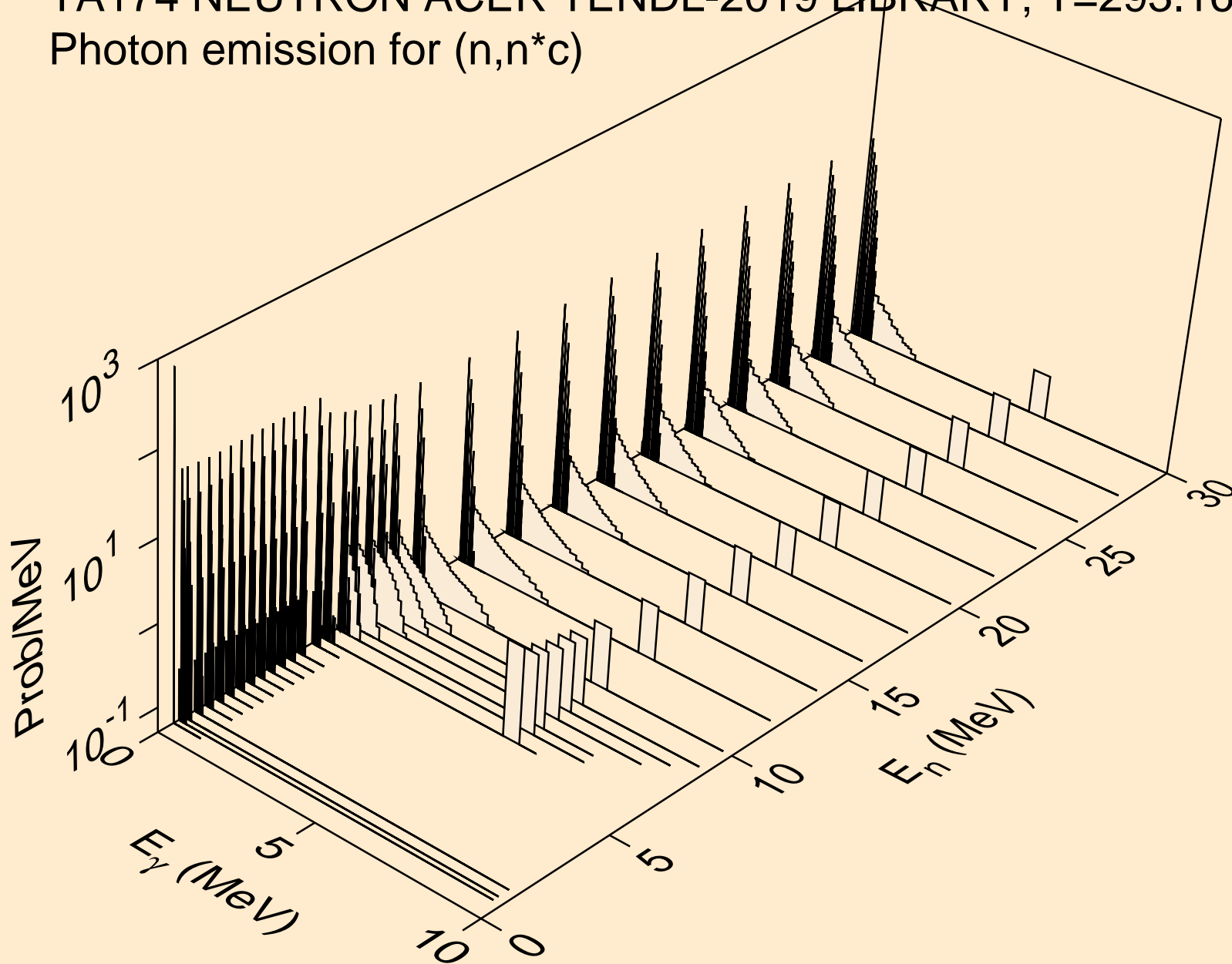
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



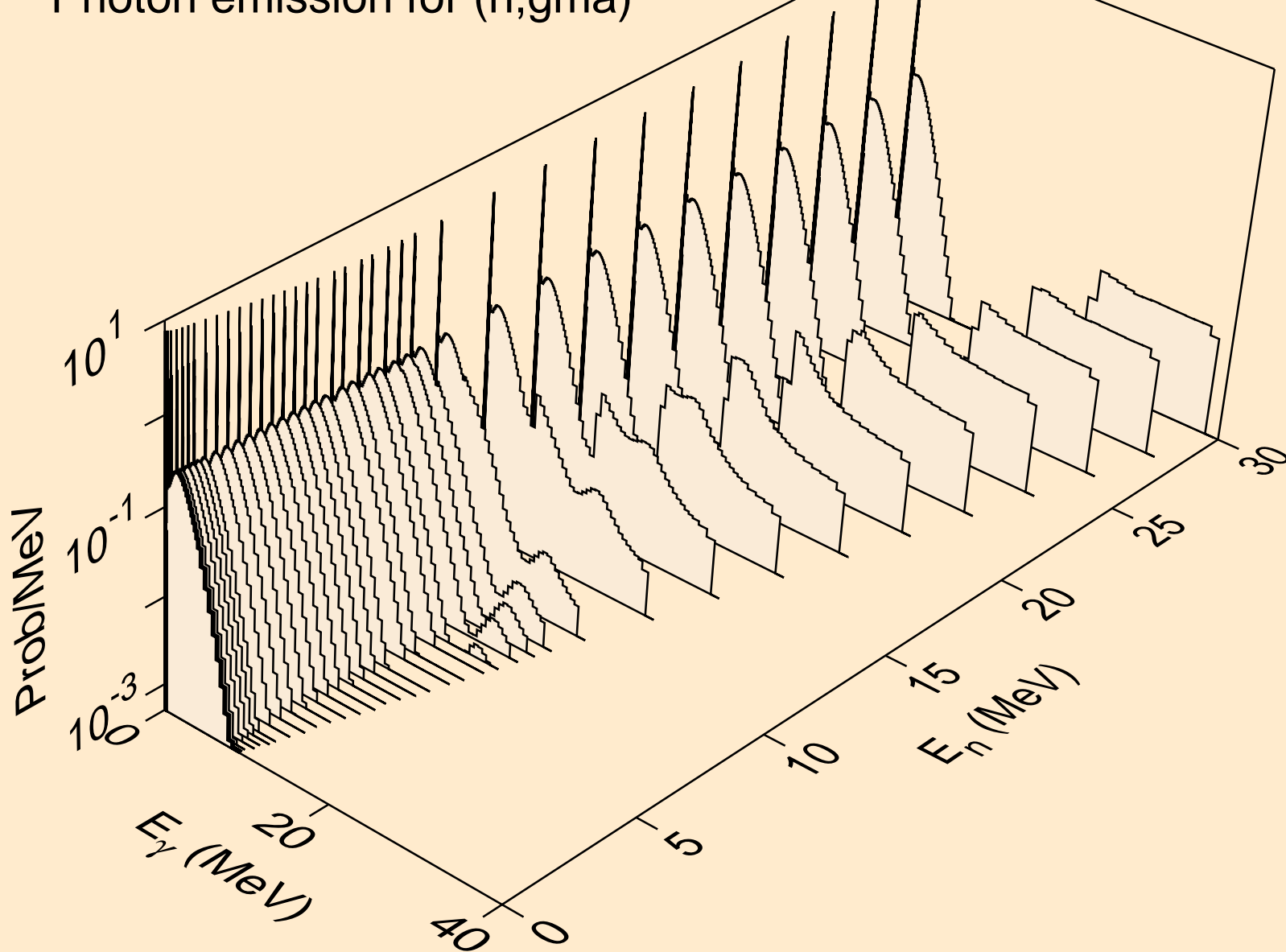
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



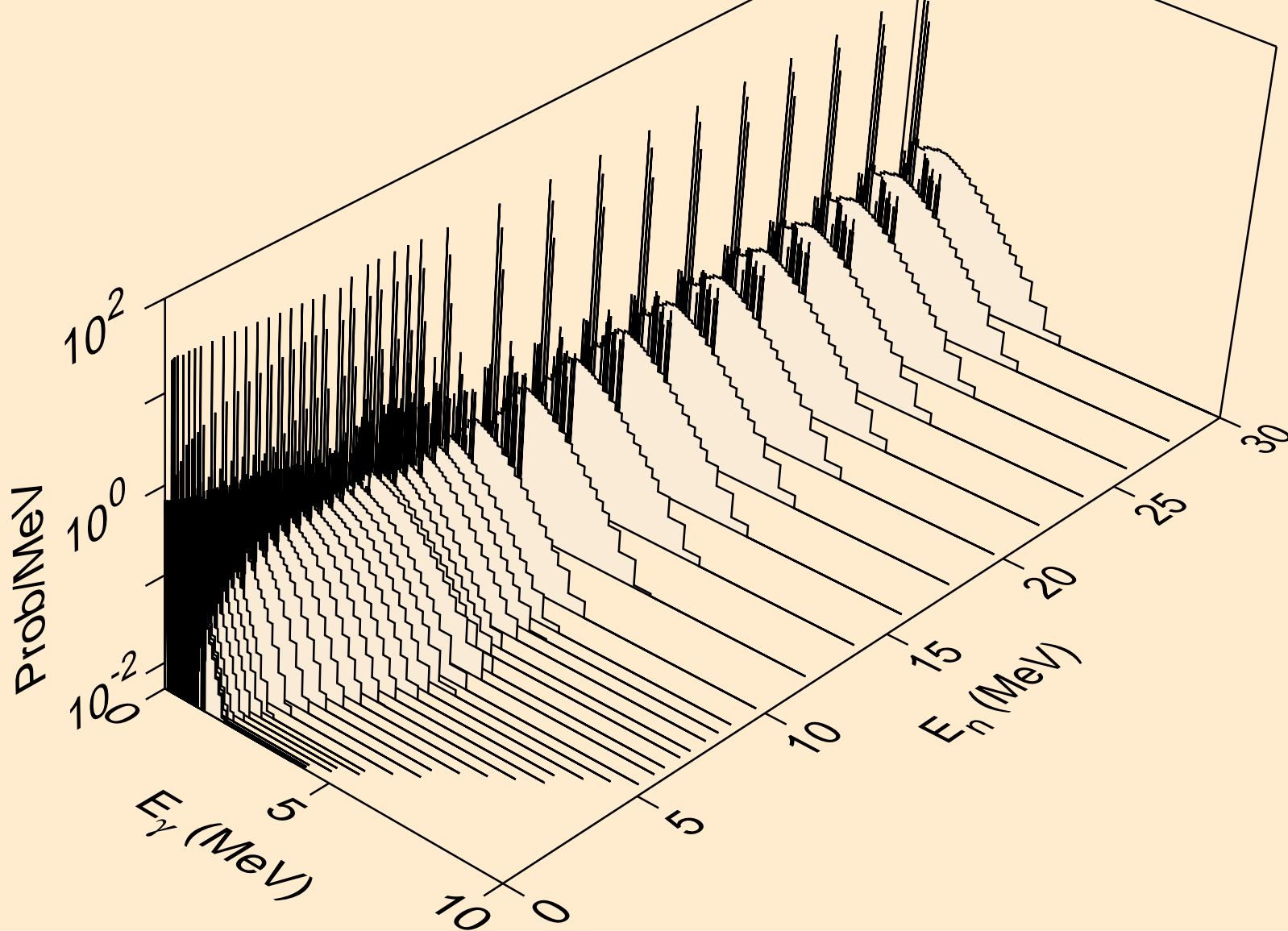
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



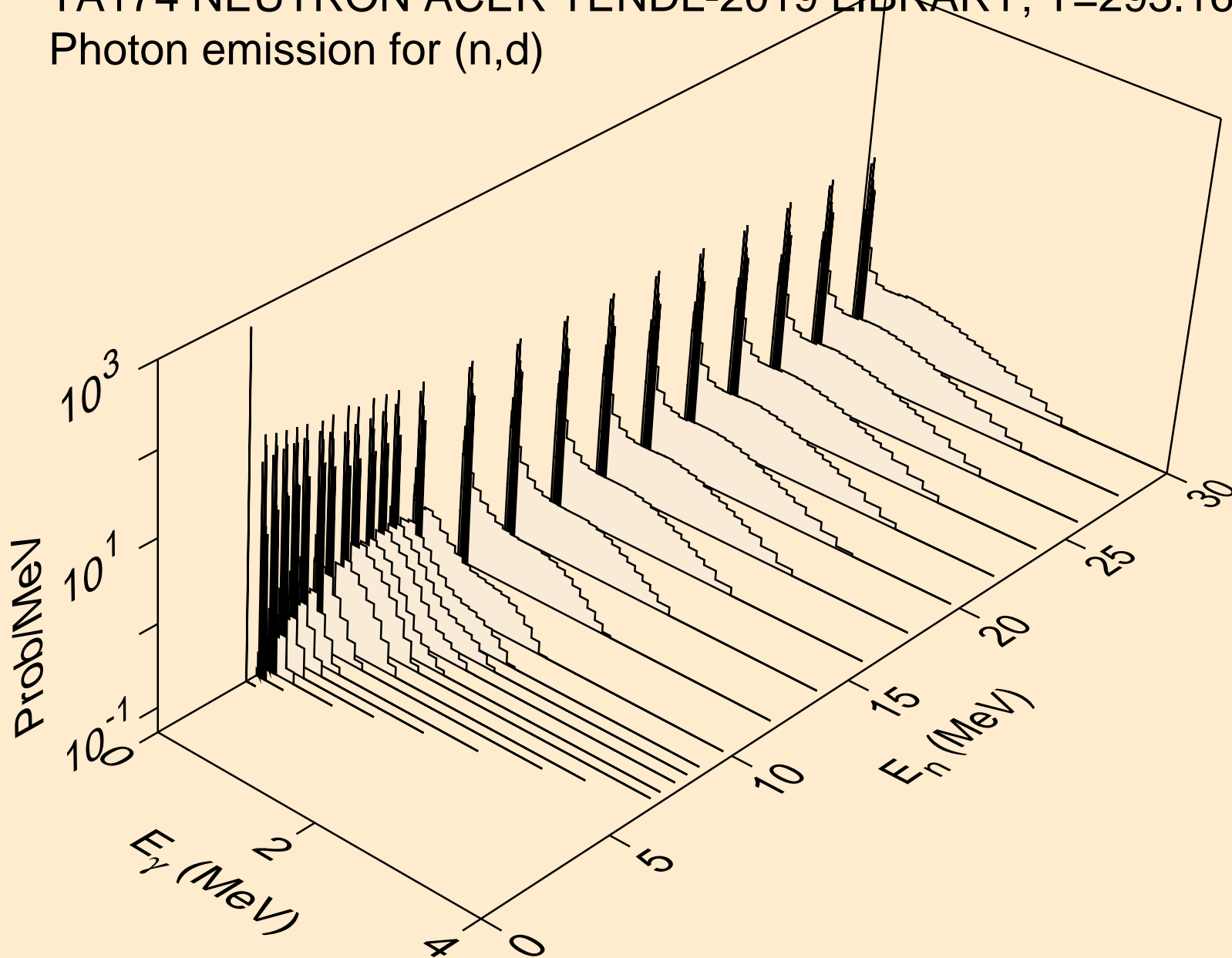
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



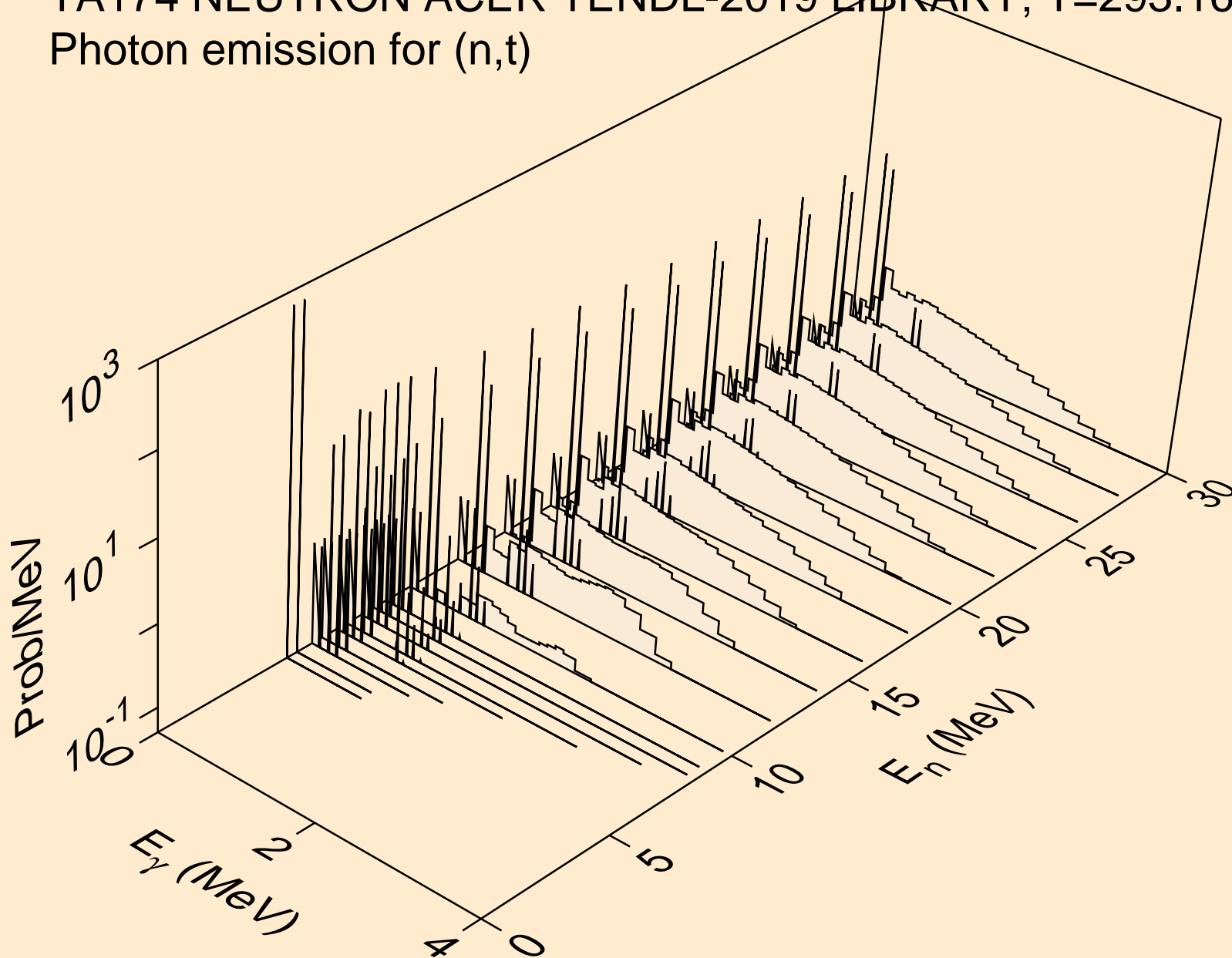
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

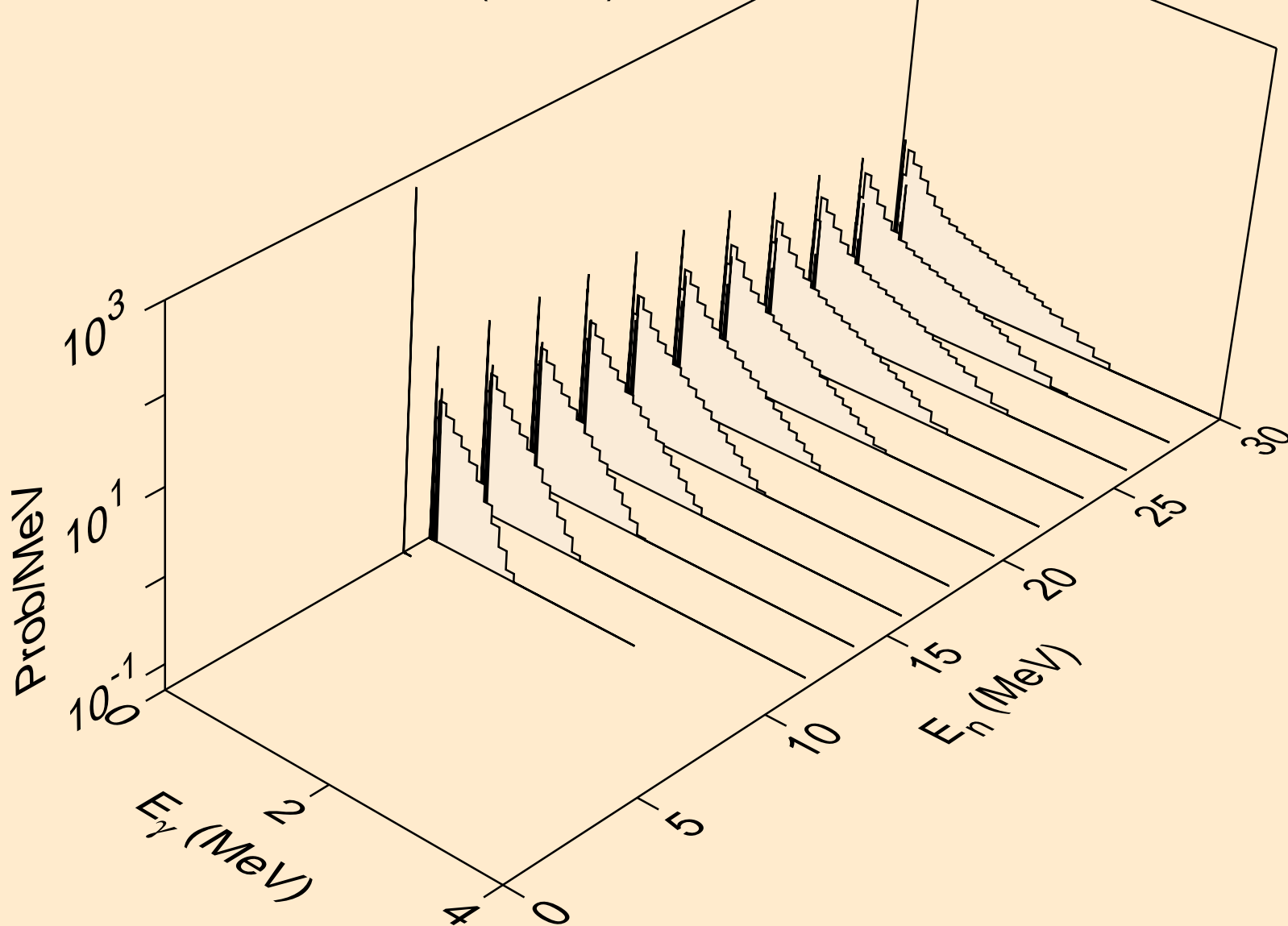


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)

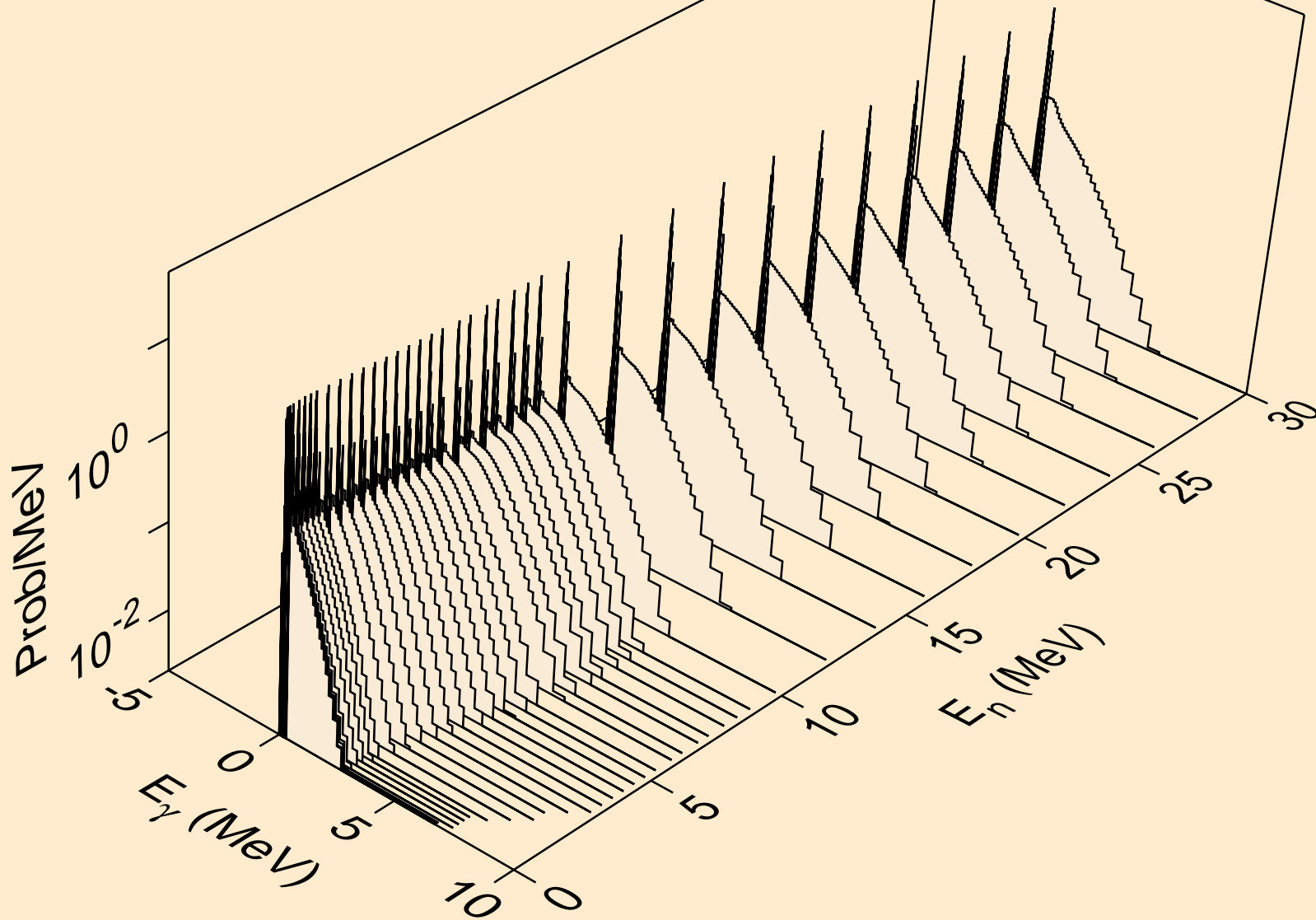




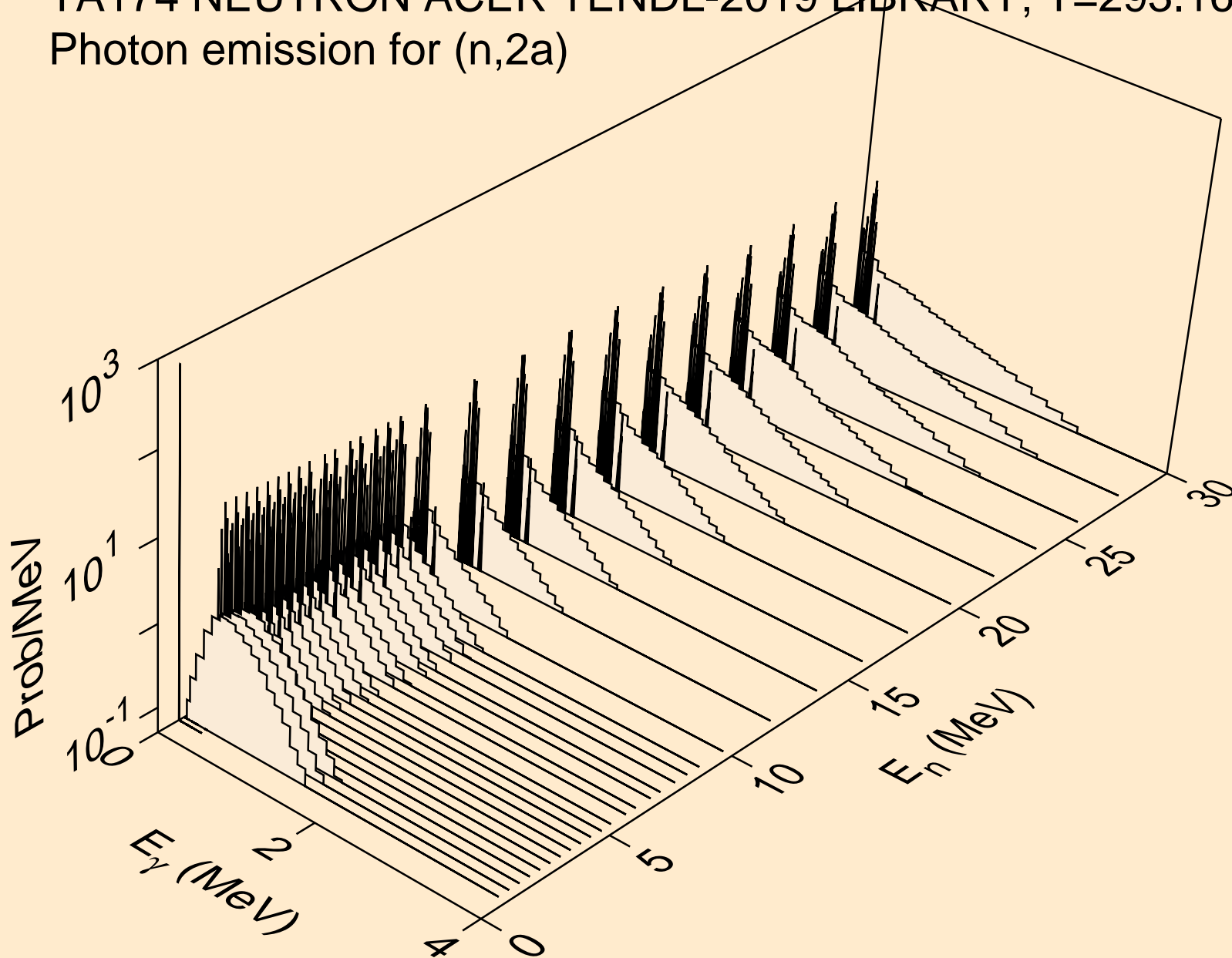
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



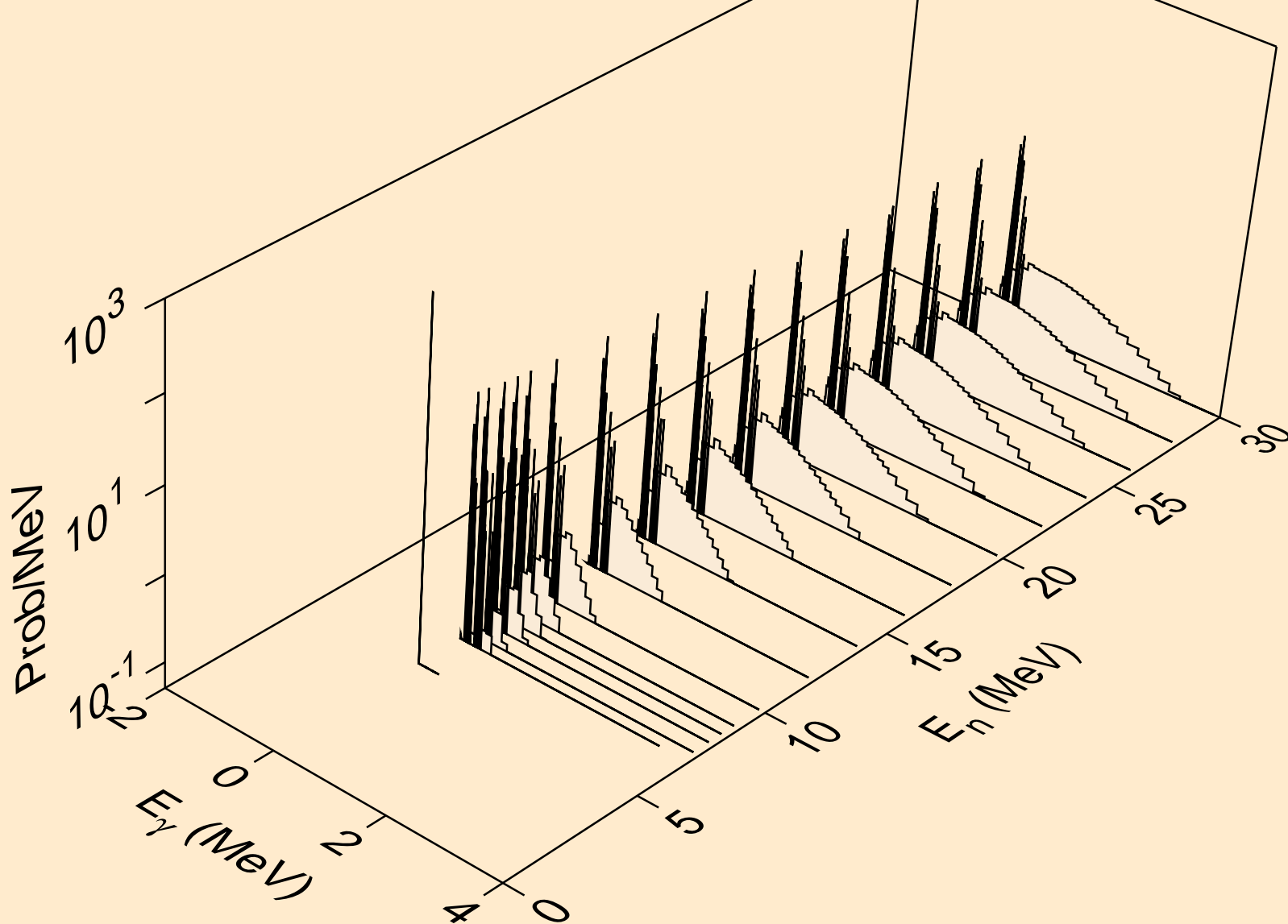
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



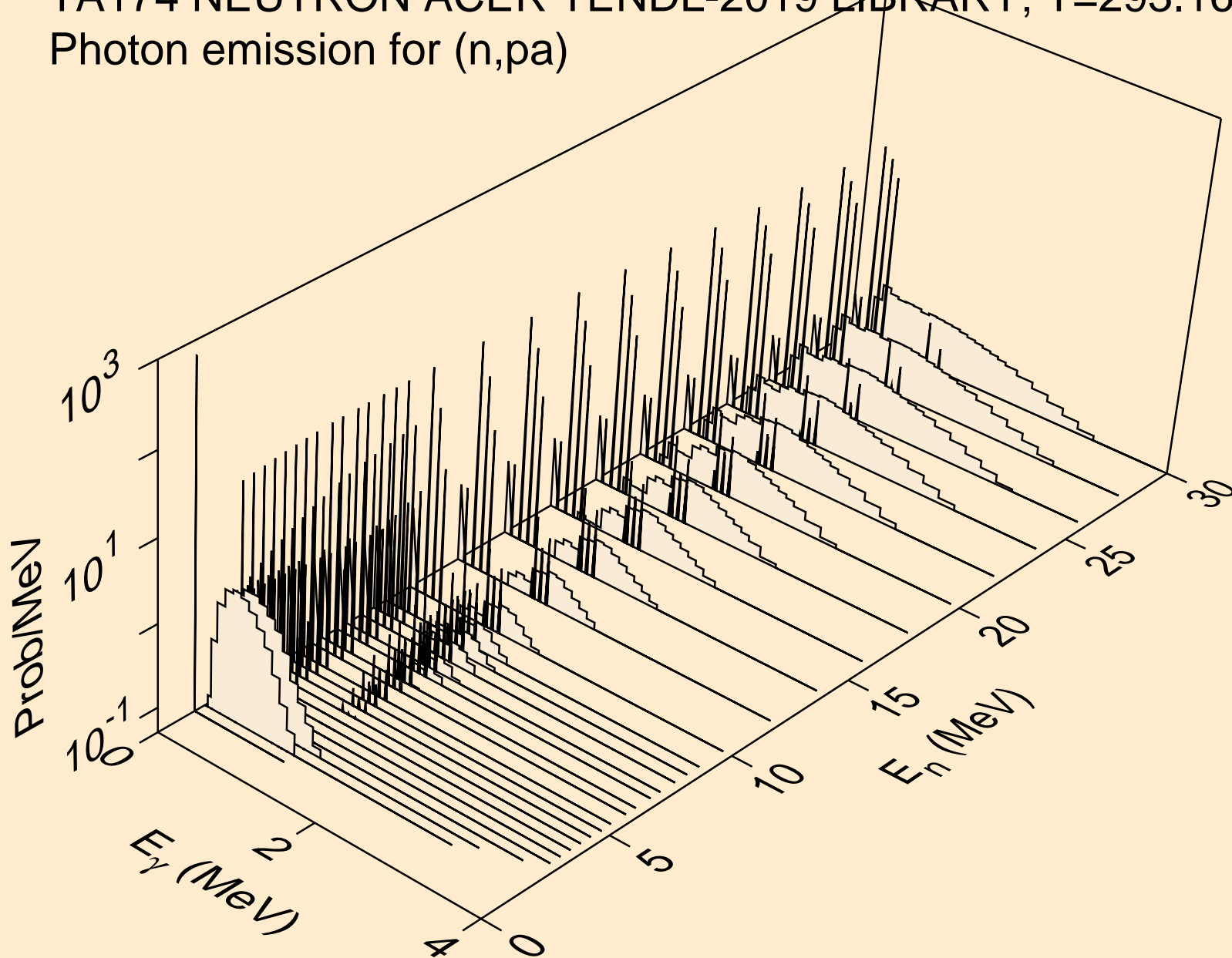
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



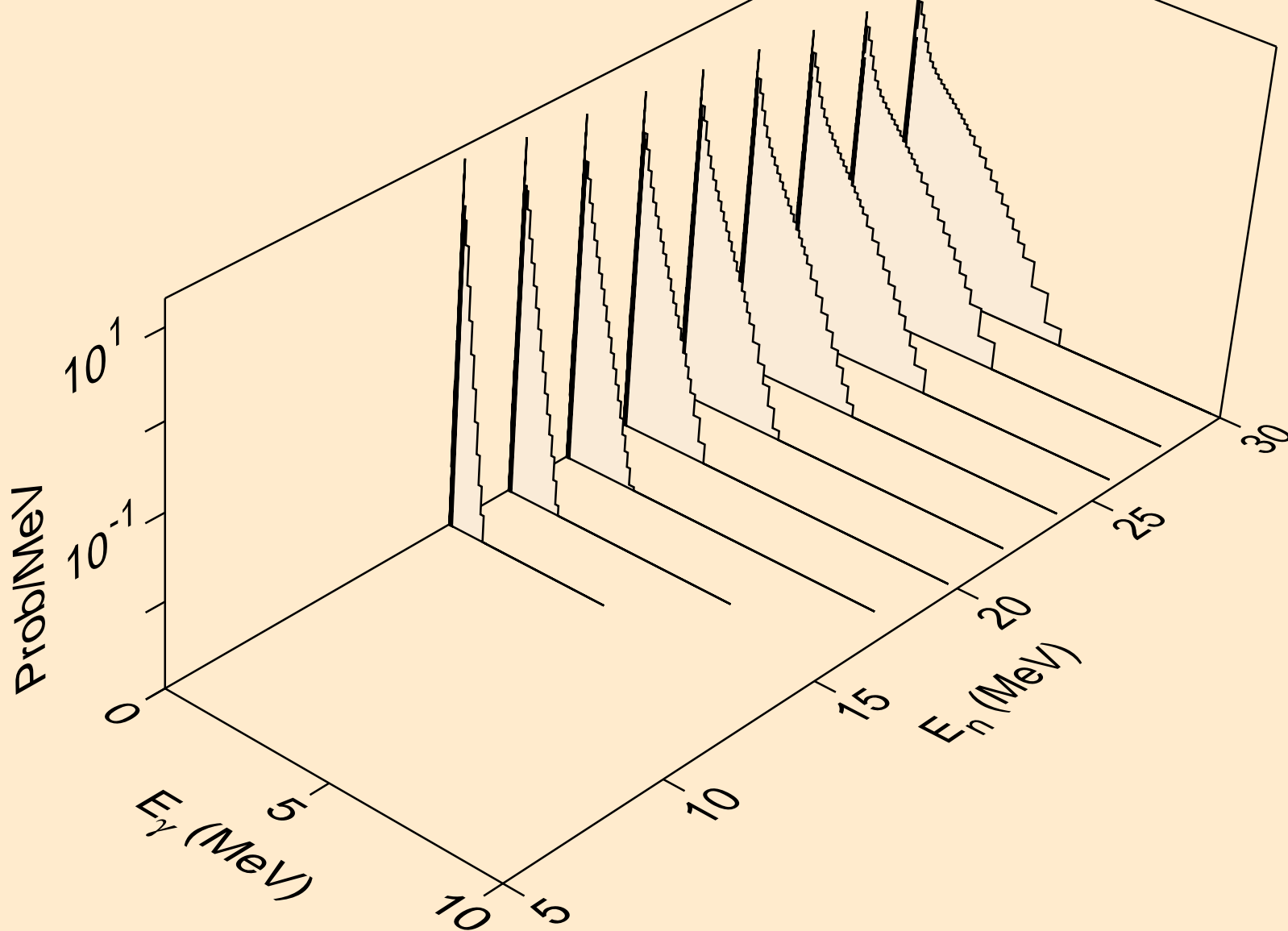
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



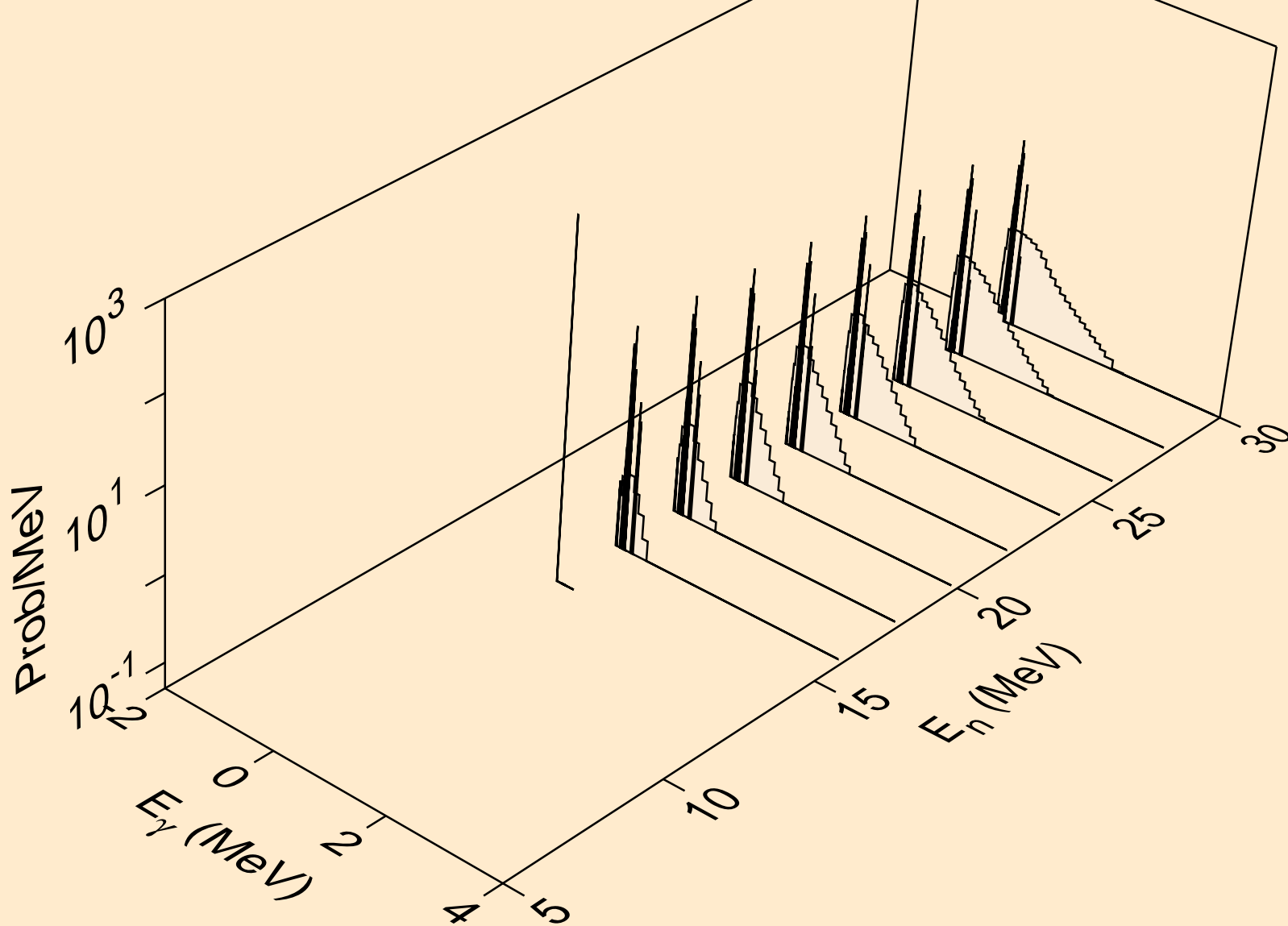
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )



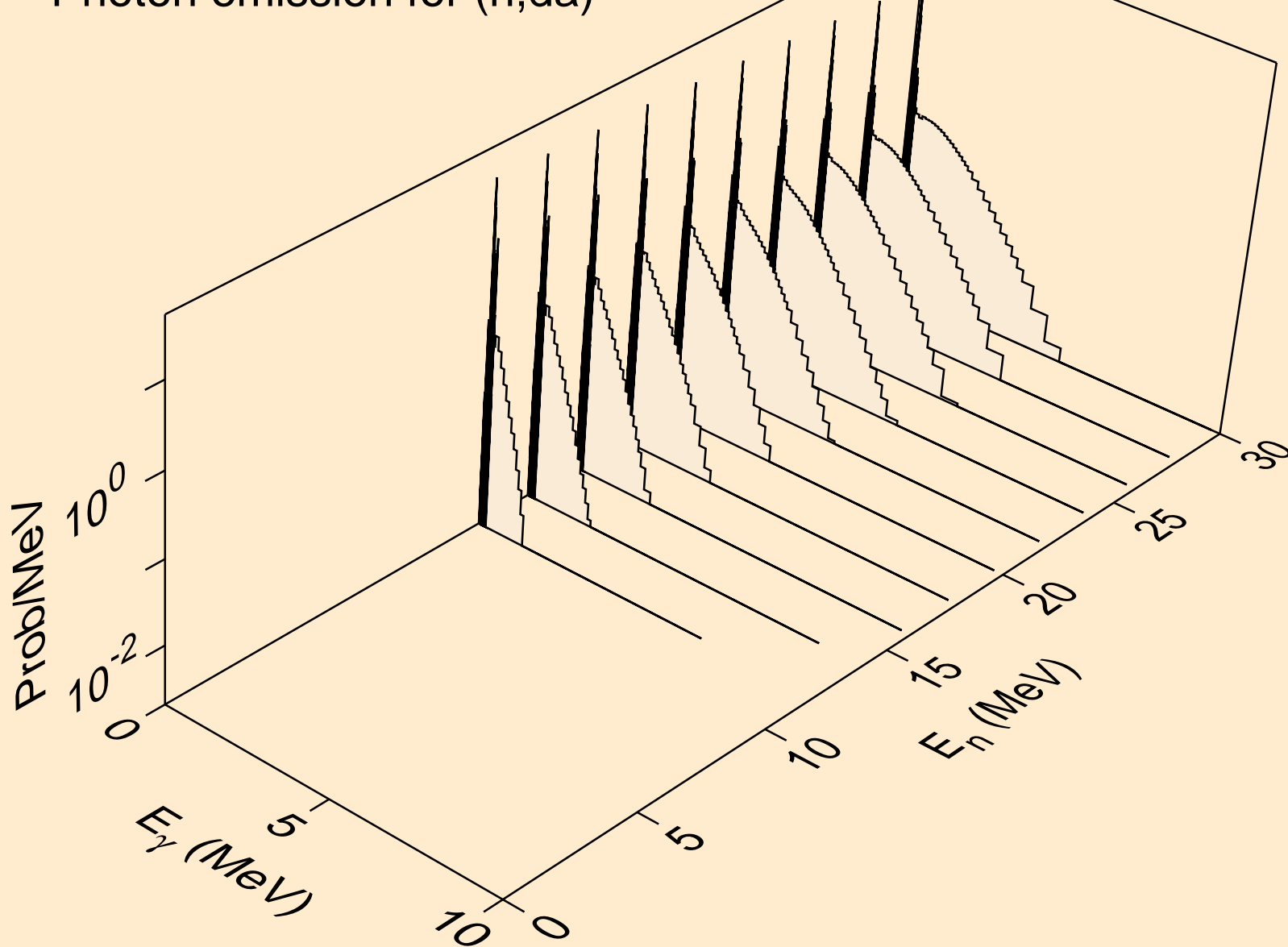
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)

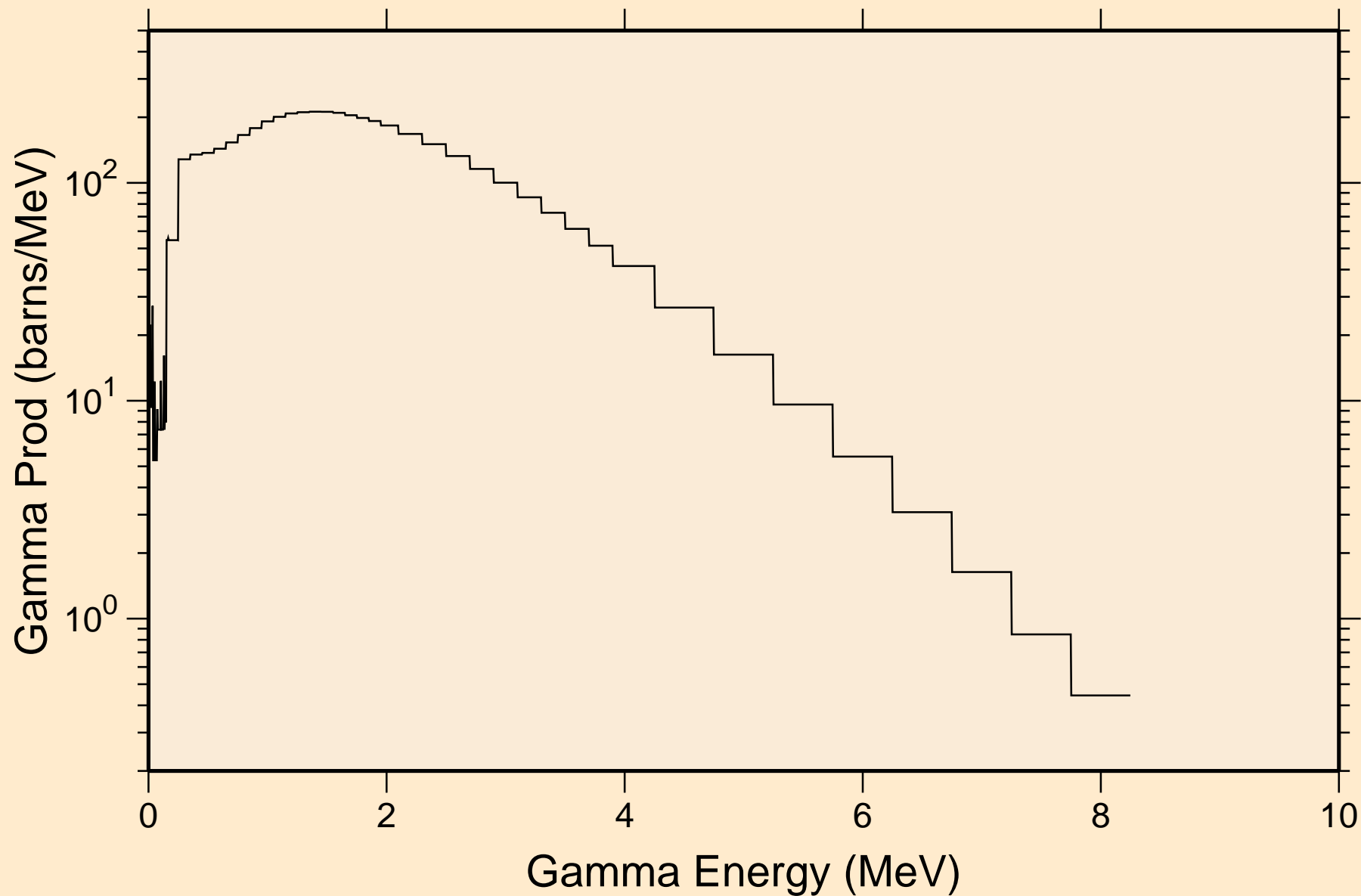


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)

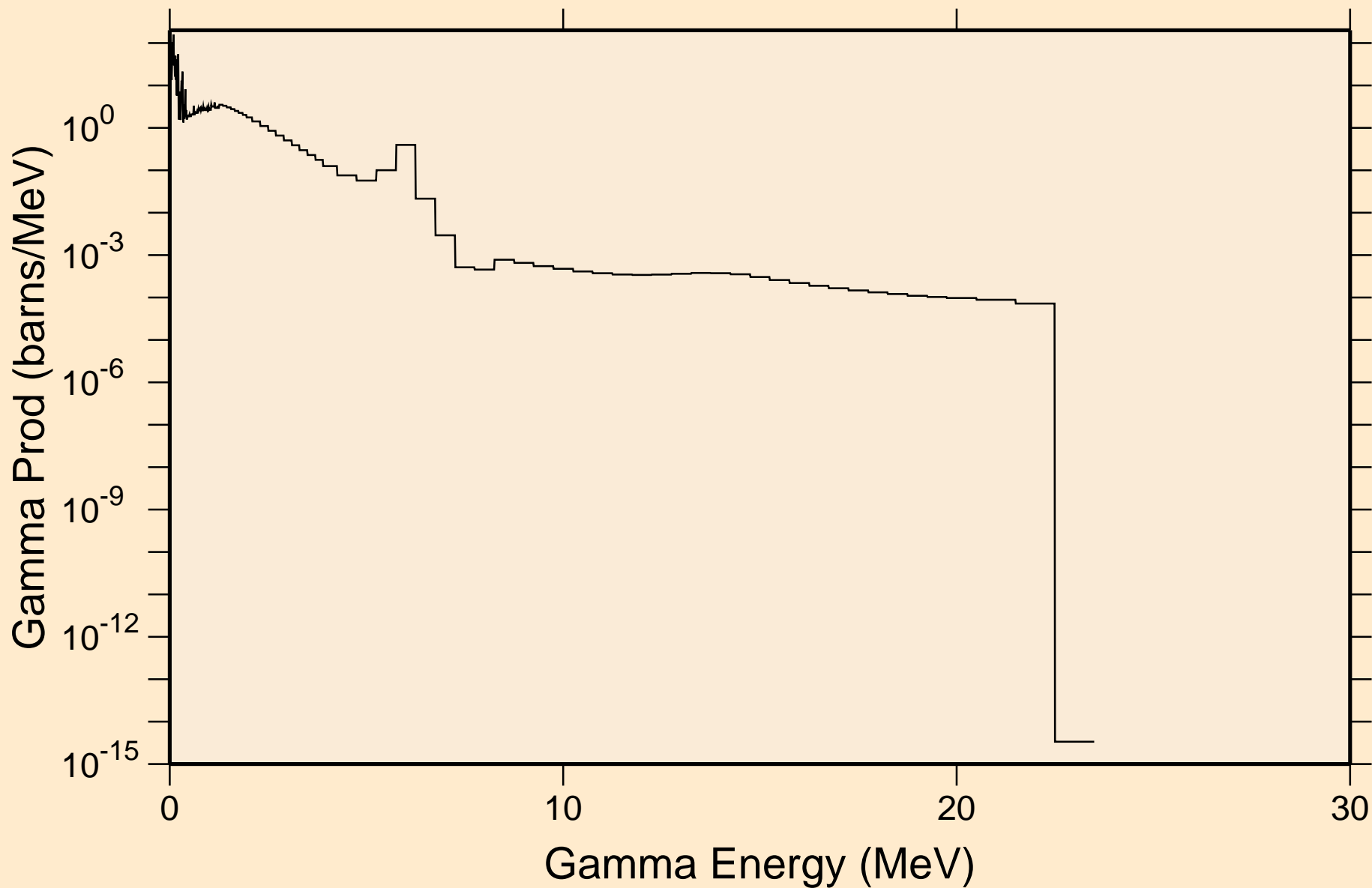




TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

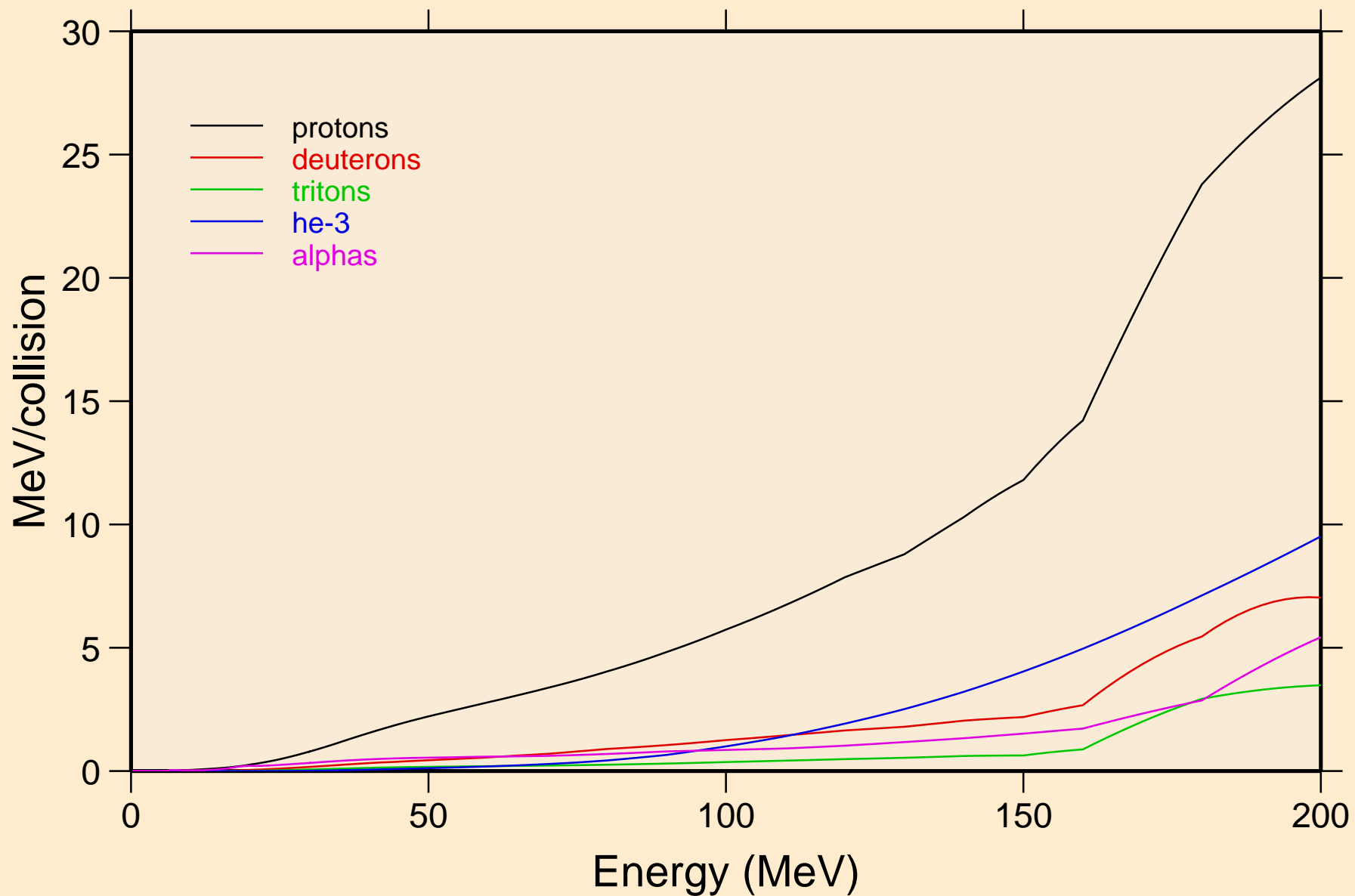


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

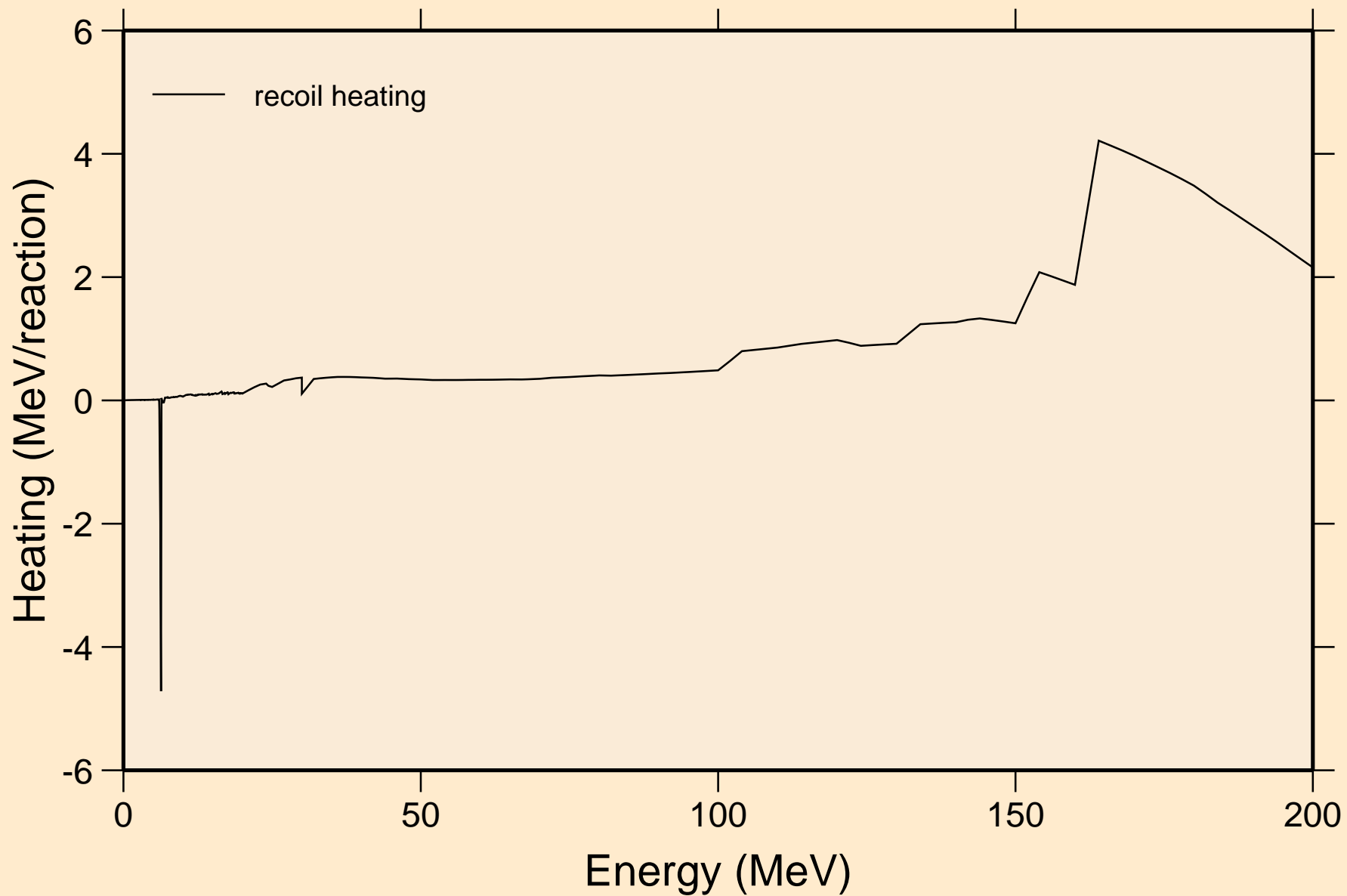


# TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

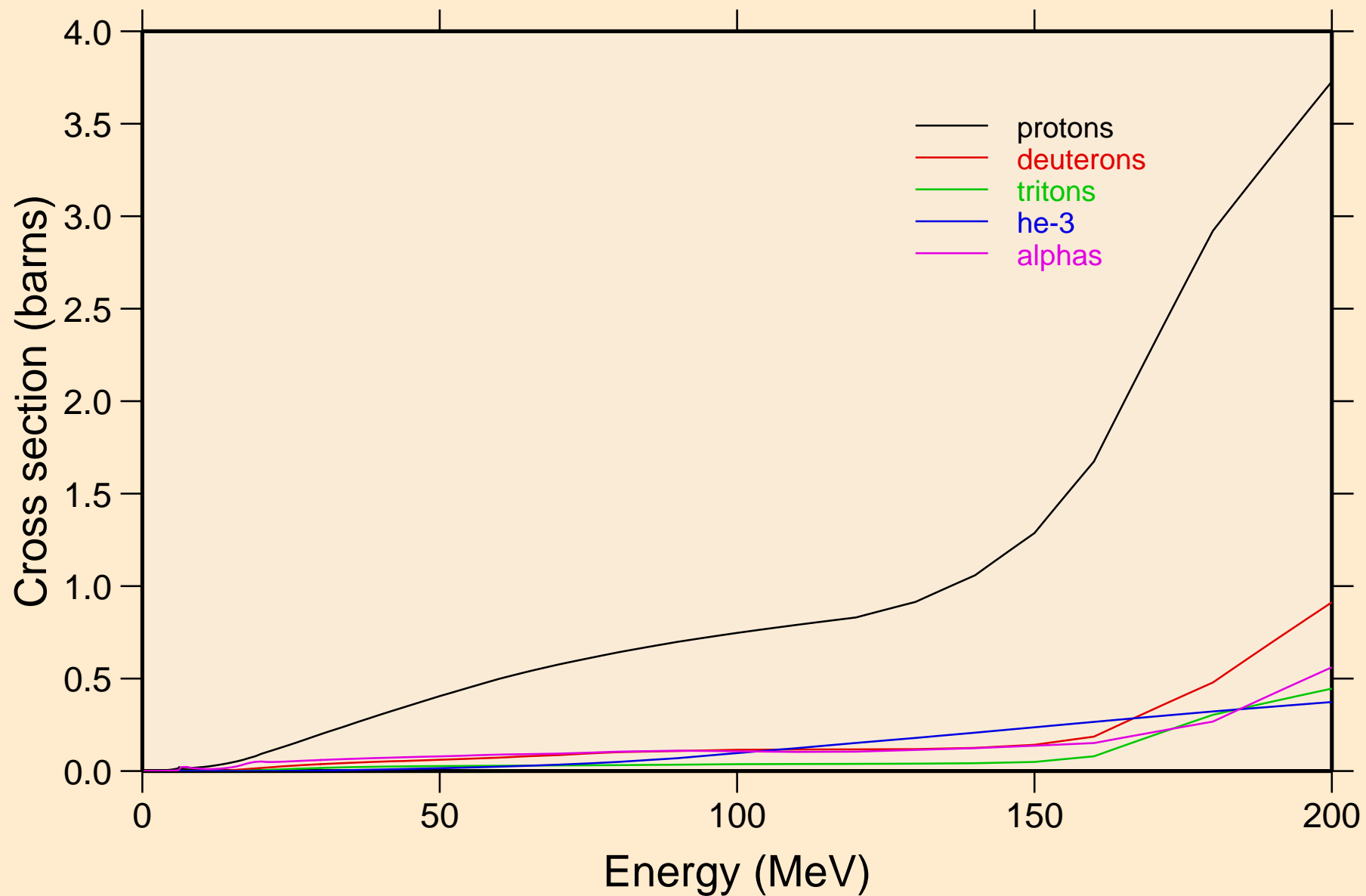
## Particle heating contributions



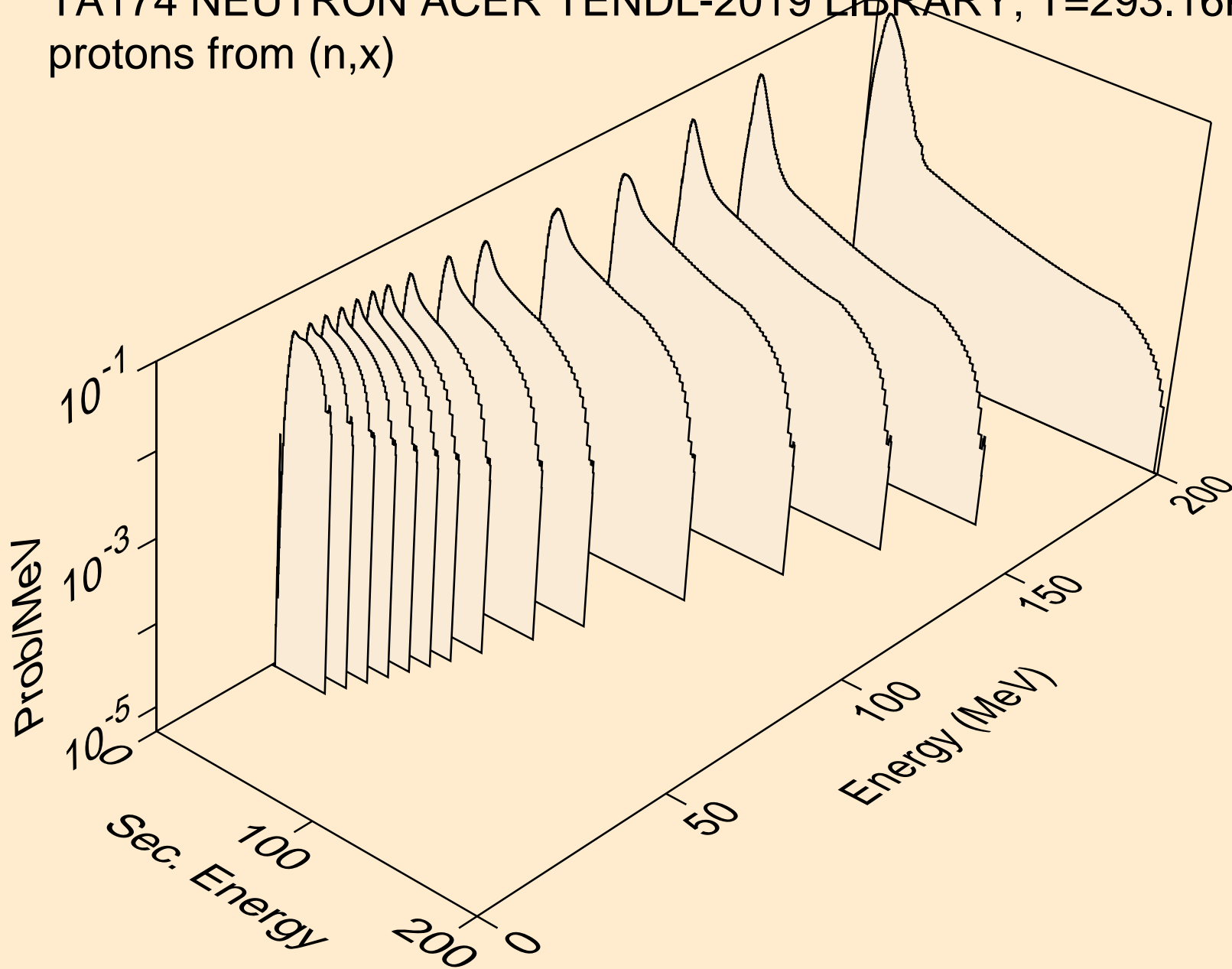
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



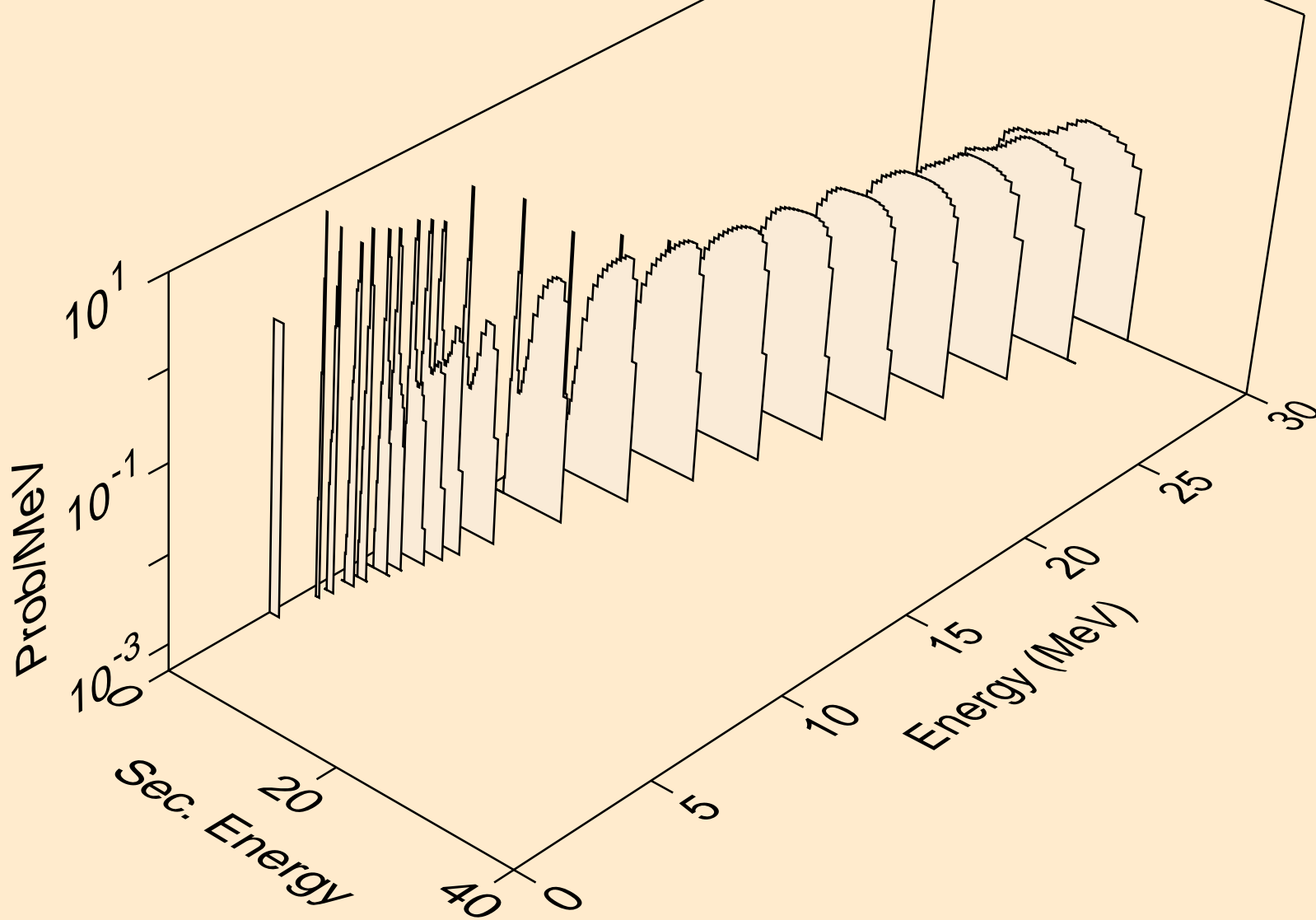
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



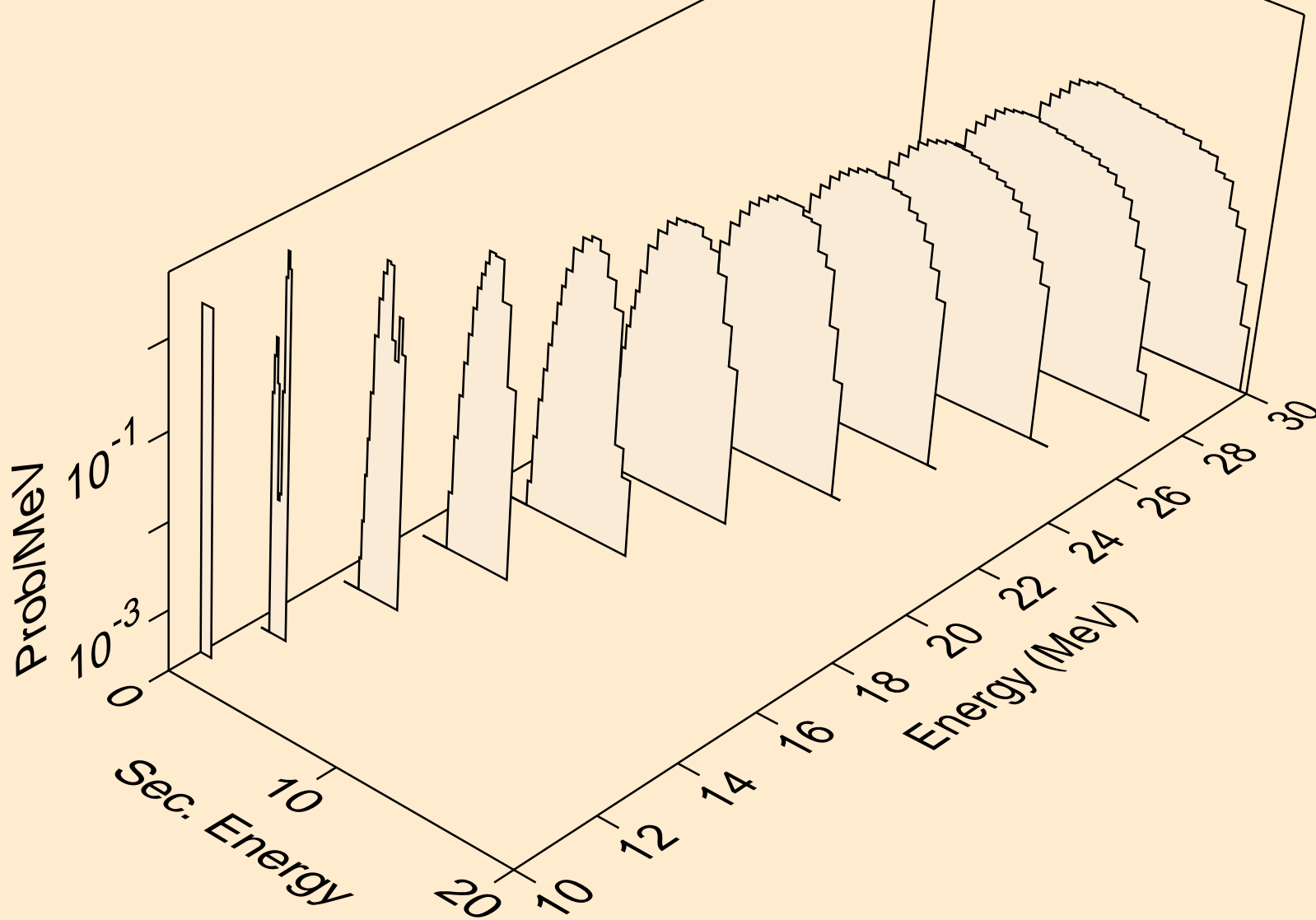
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p

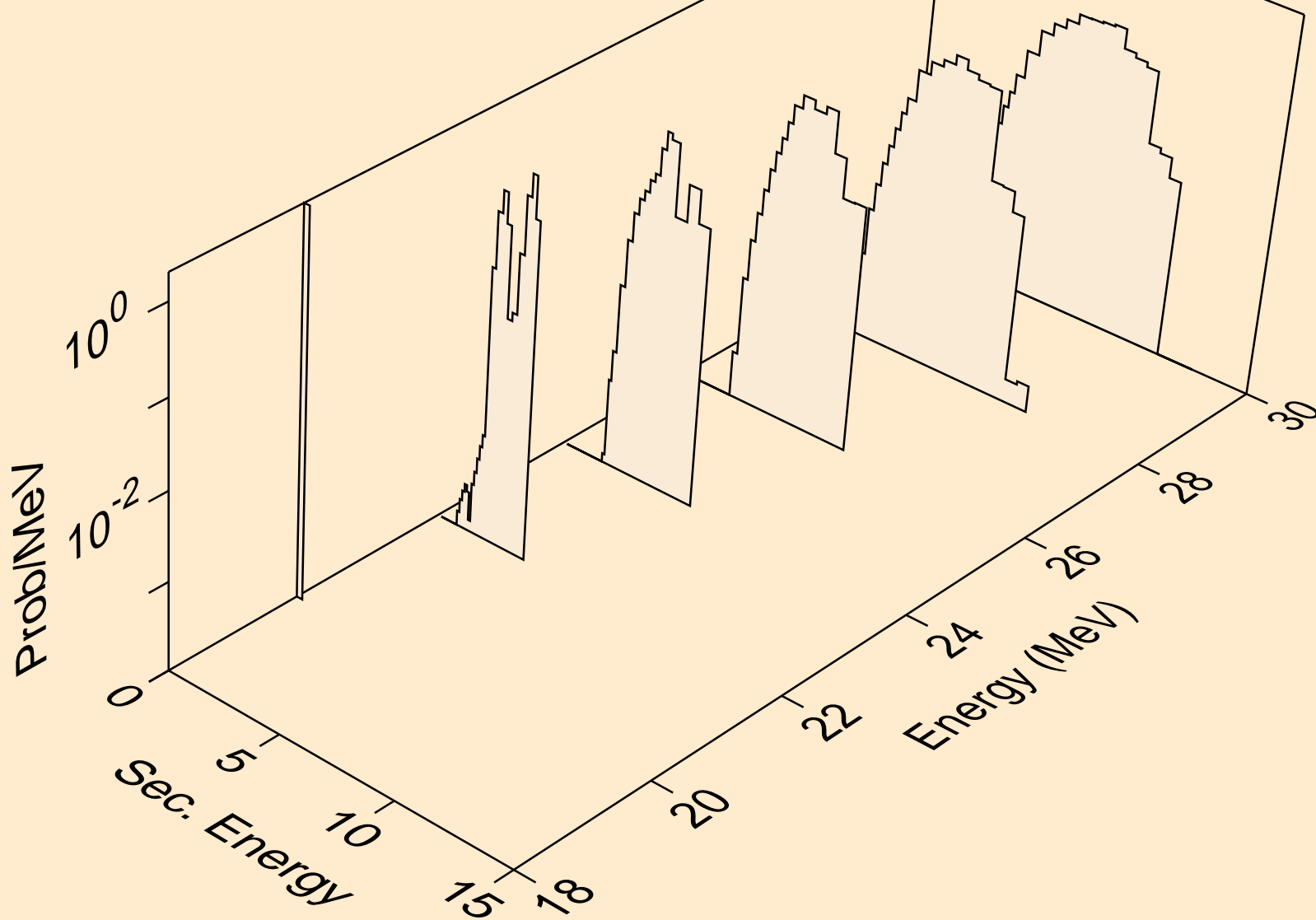


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)

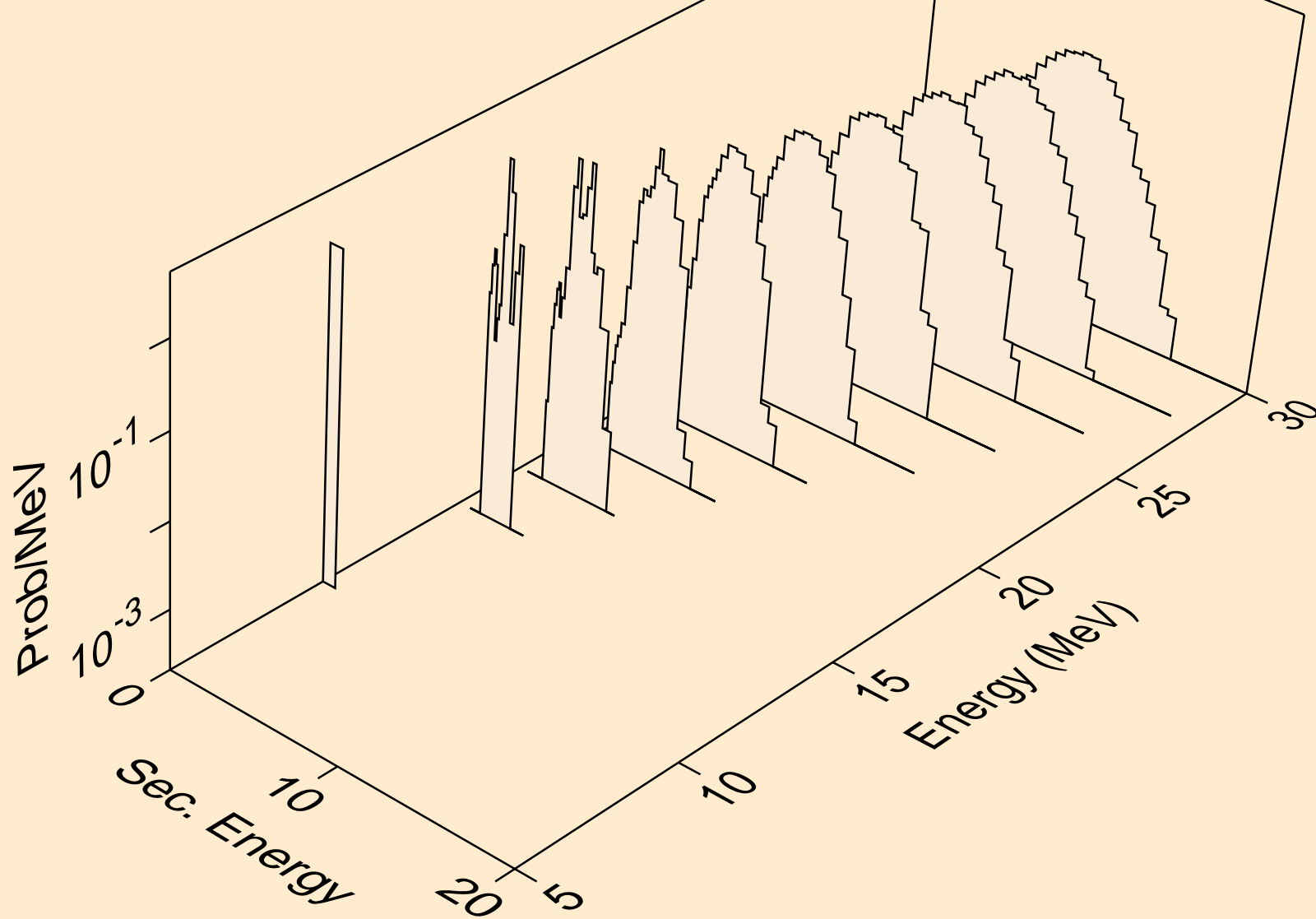




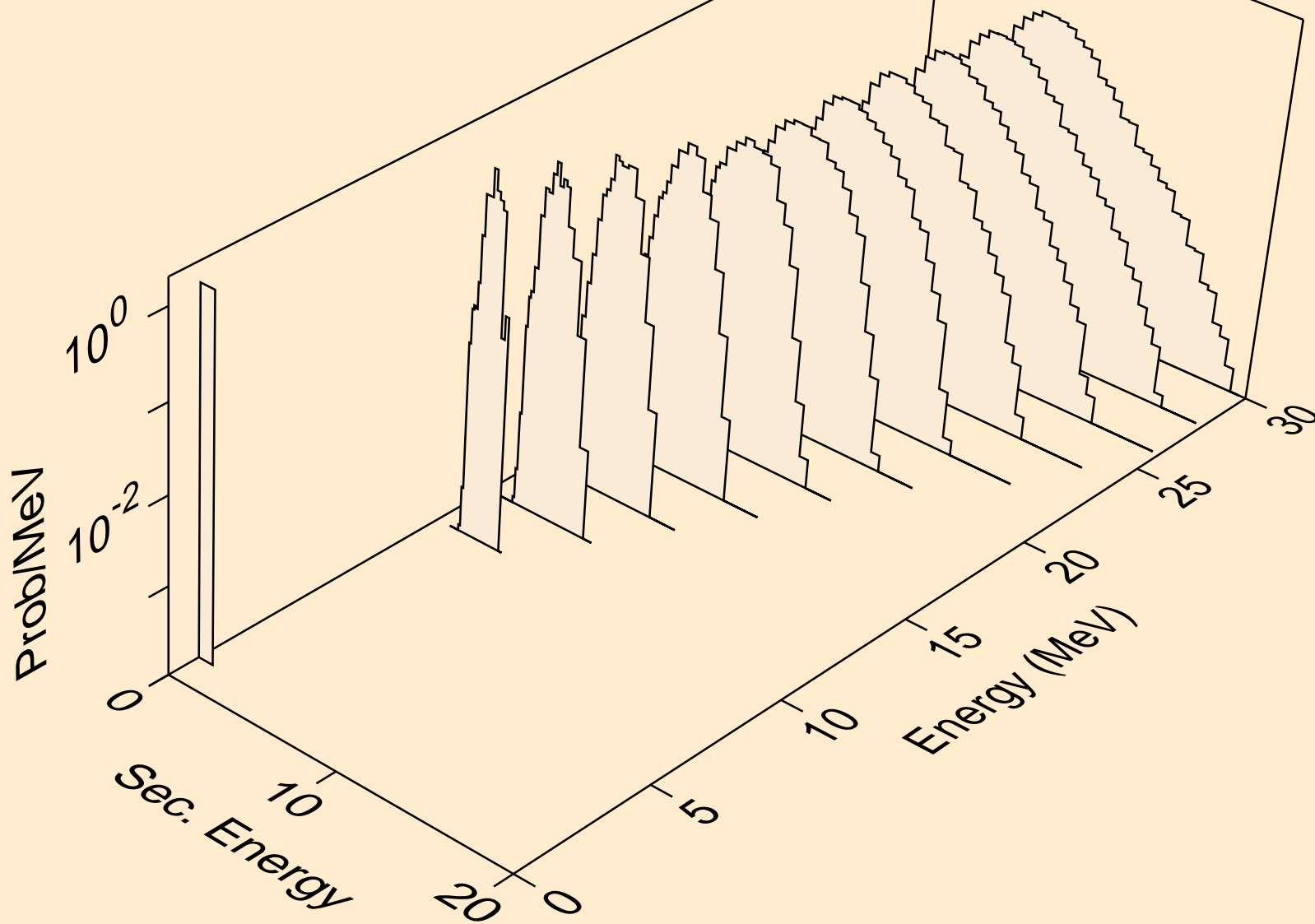
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



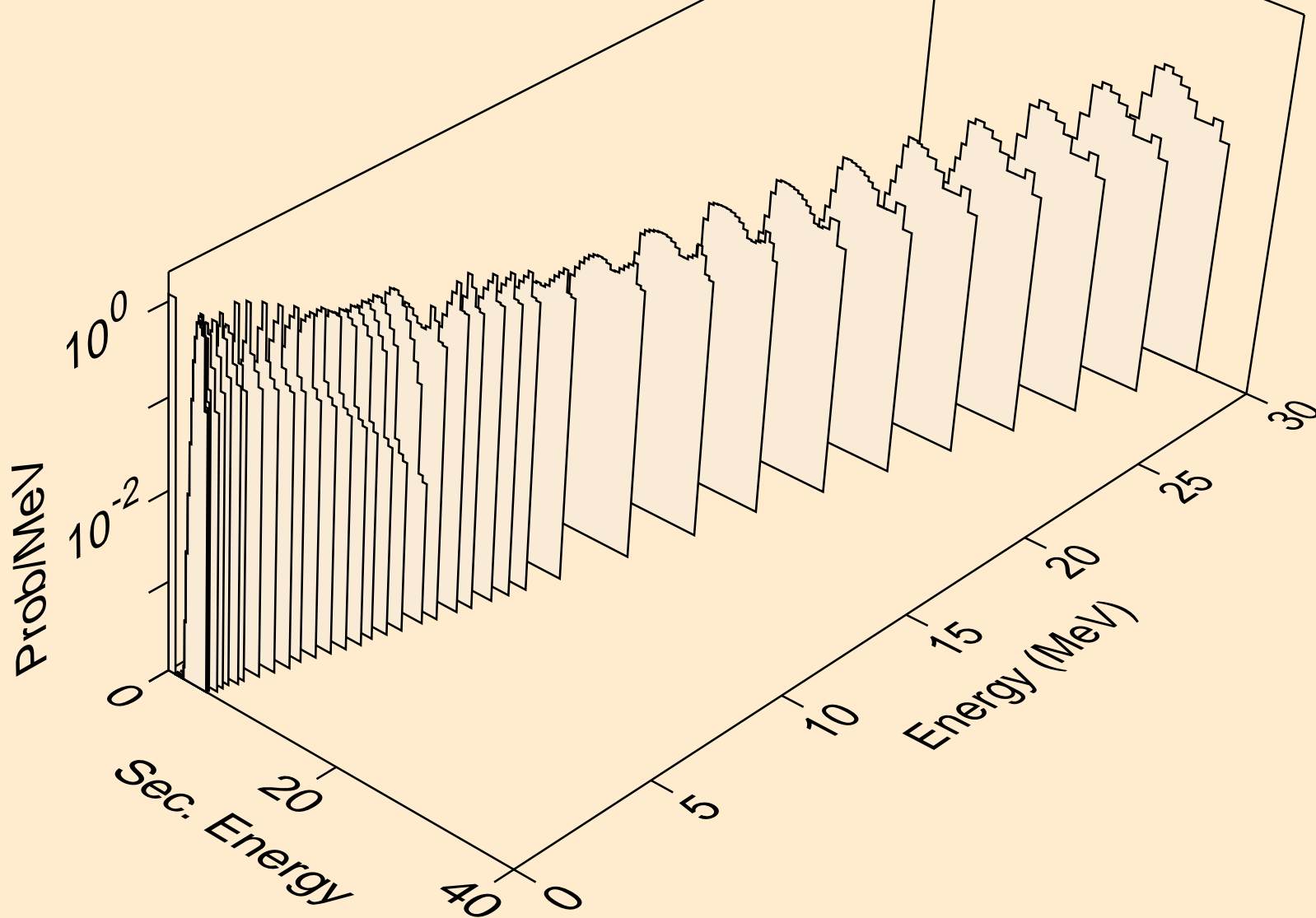
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



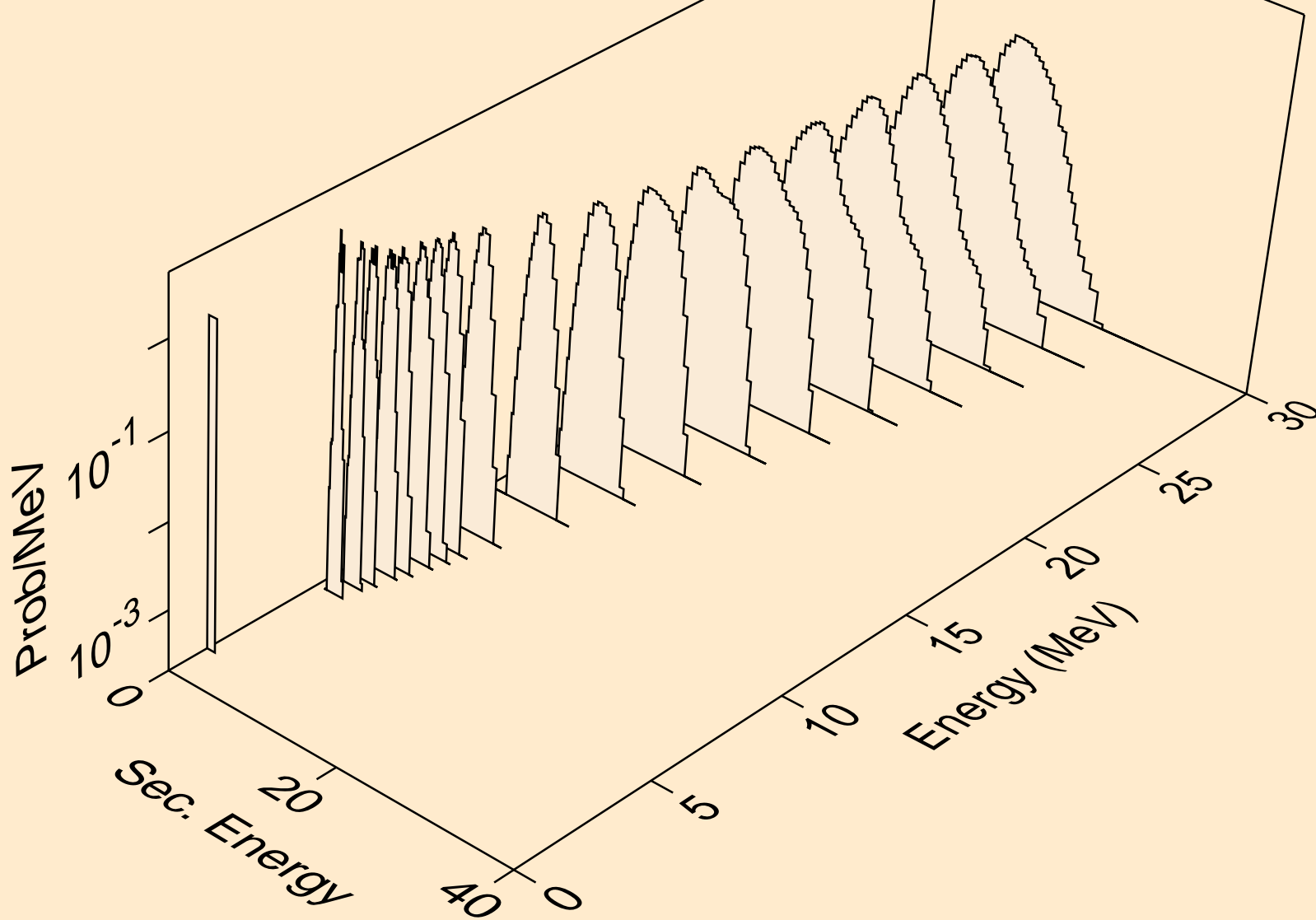
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,npa)



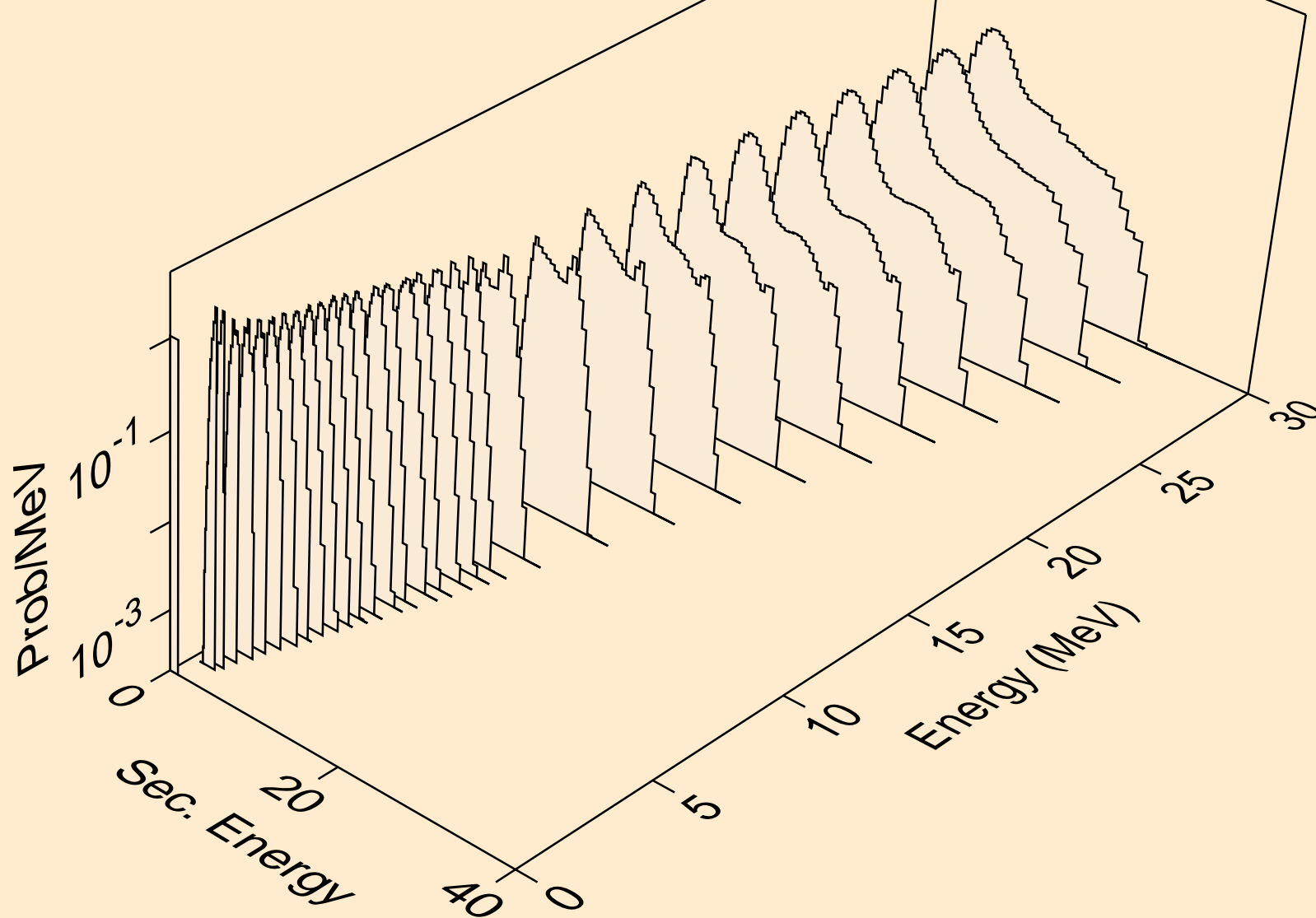
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



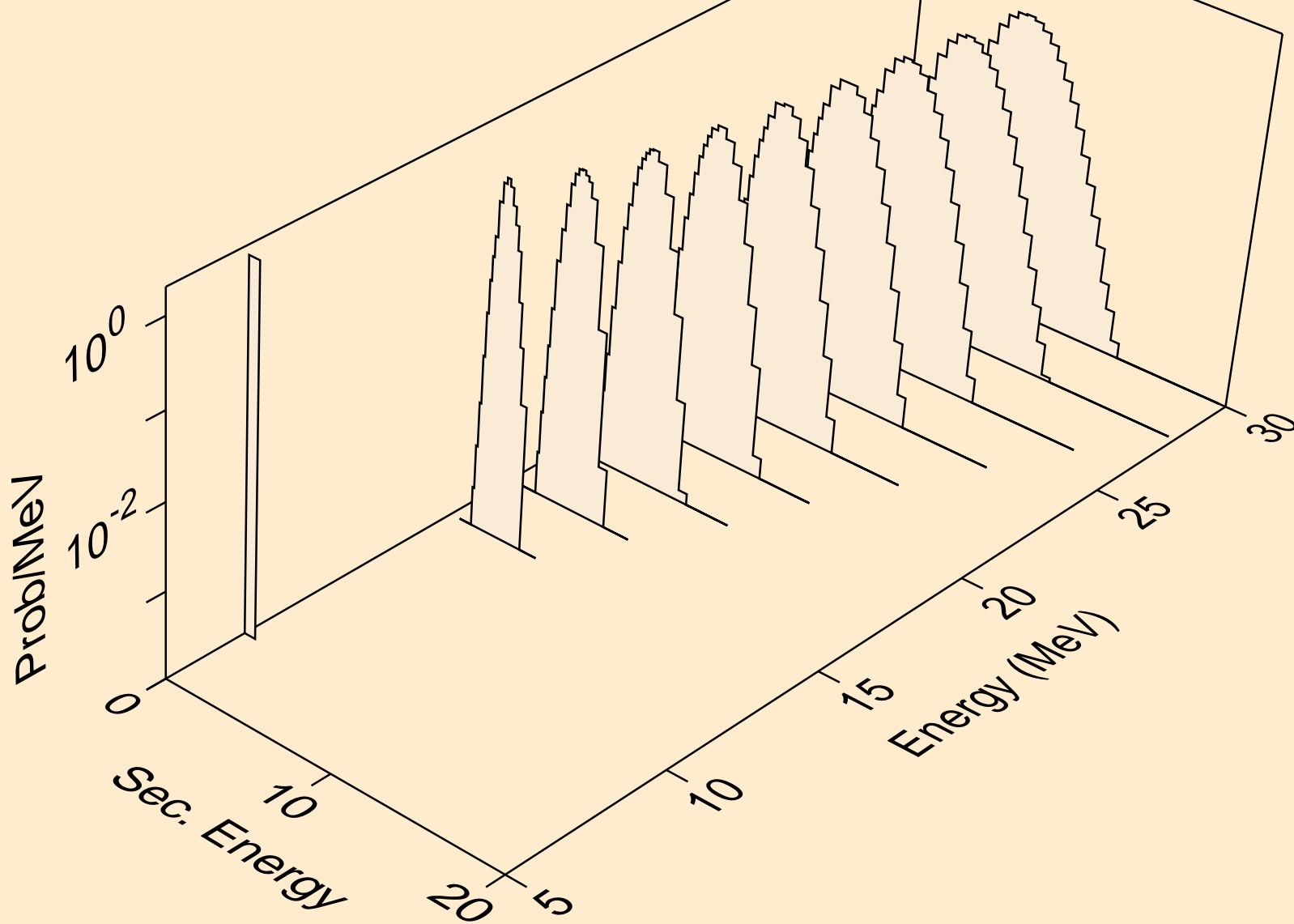
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)



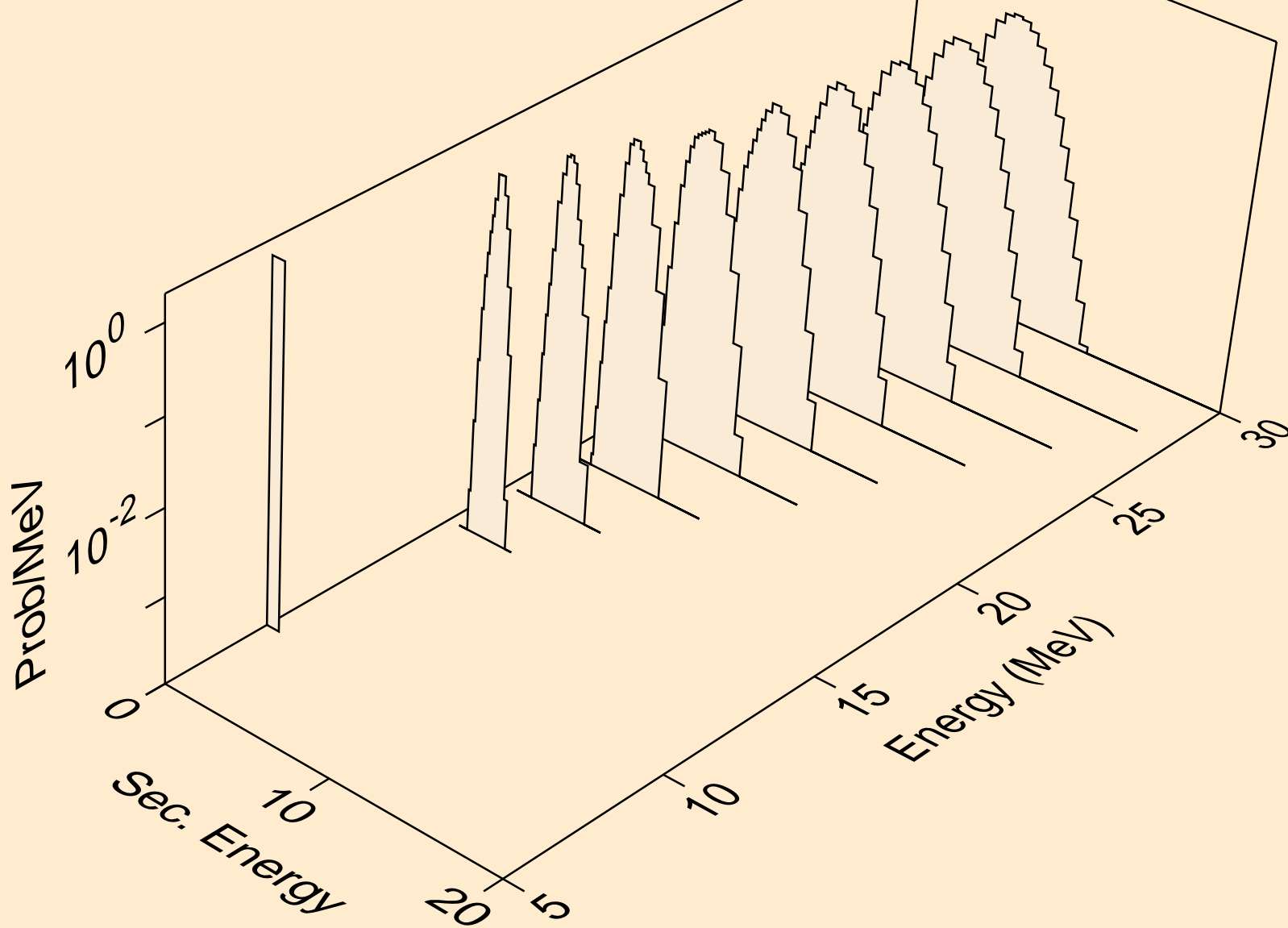
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pd)

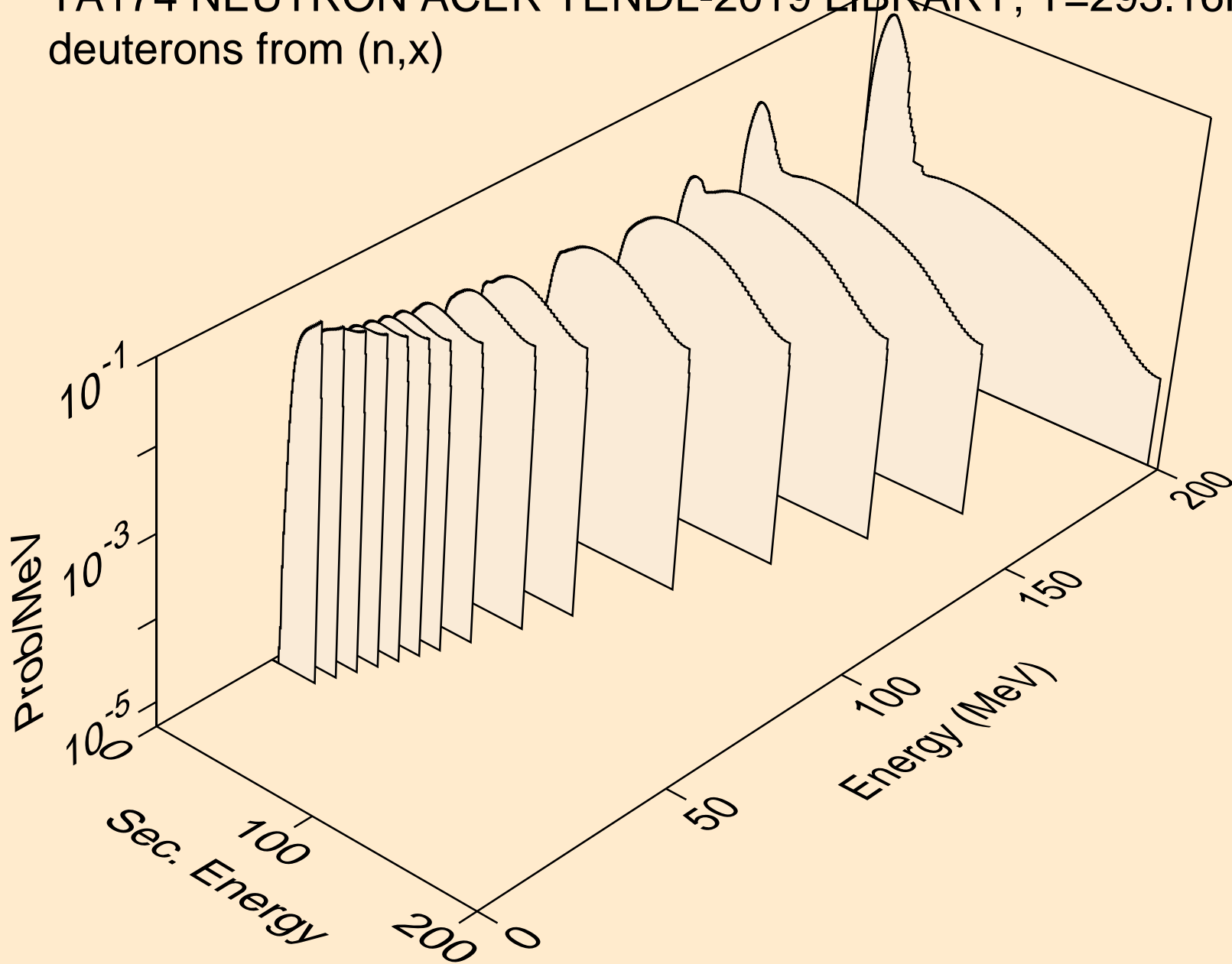


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pt)

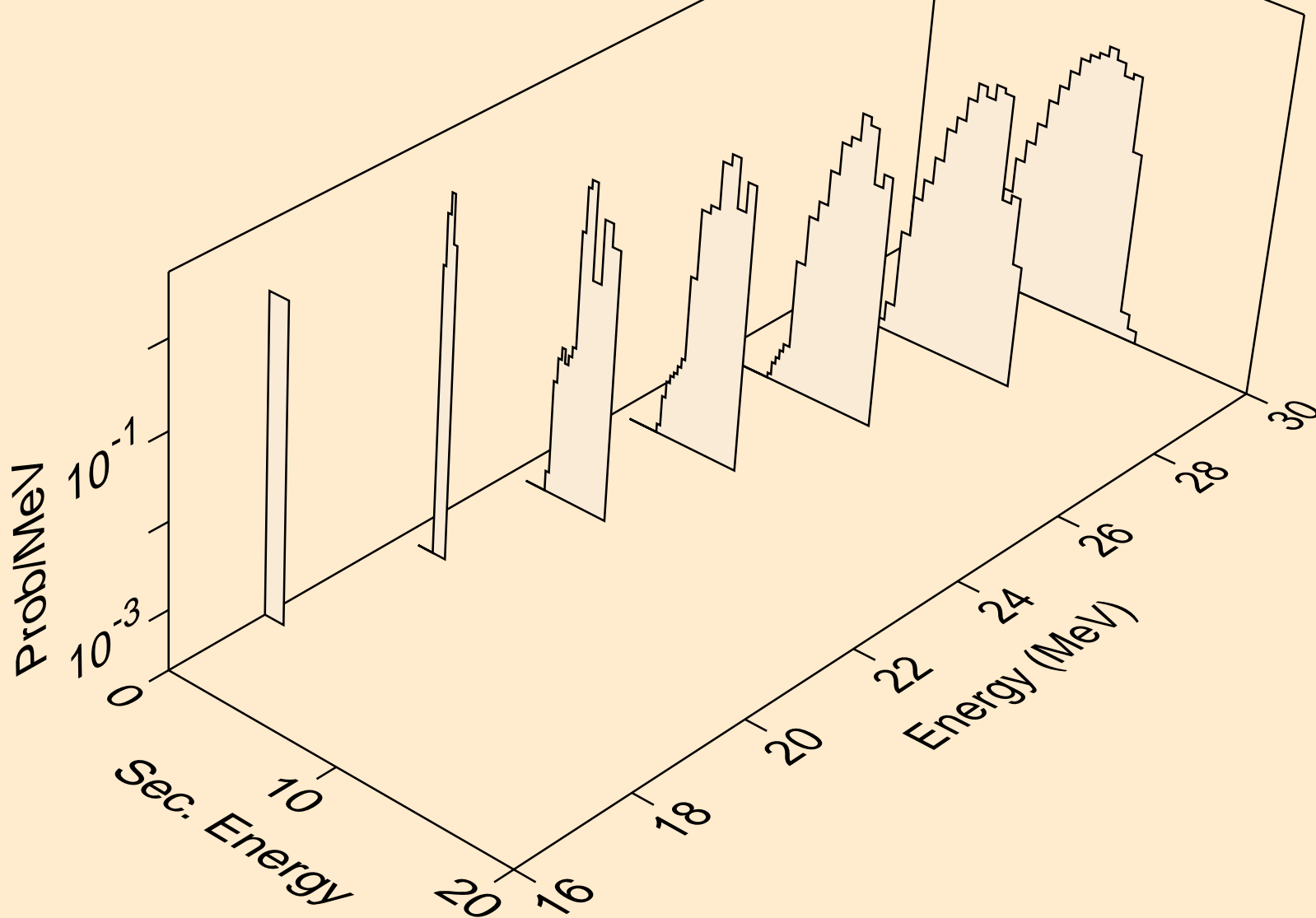




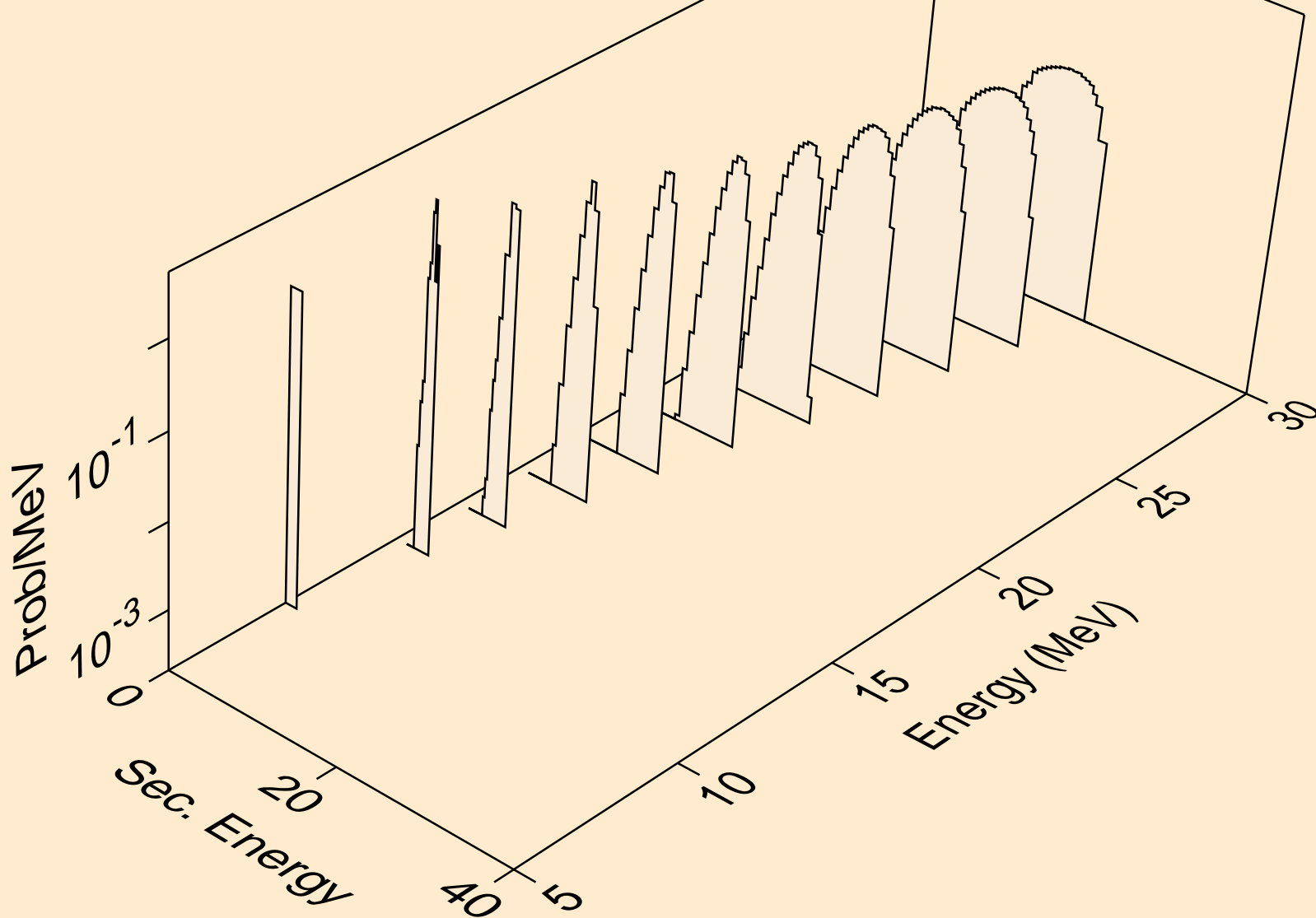
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)



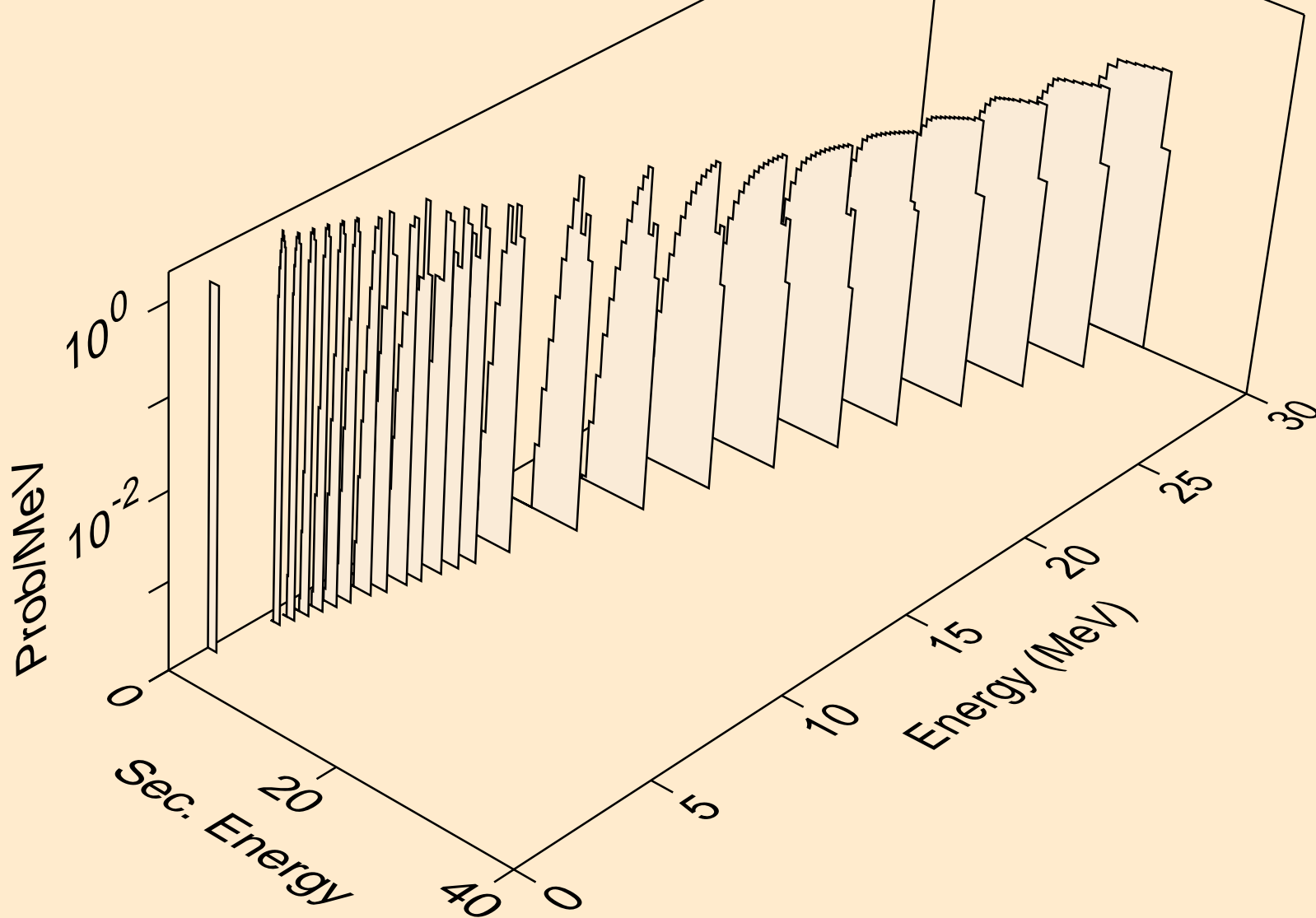
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



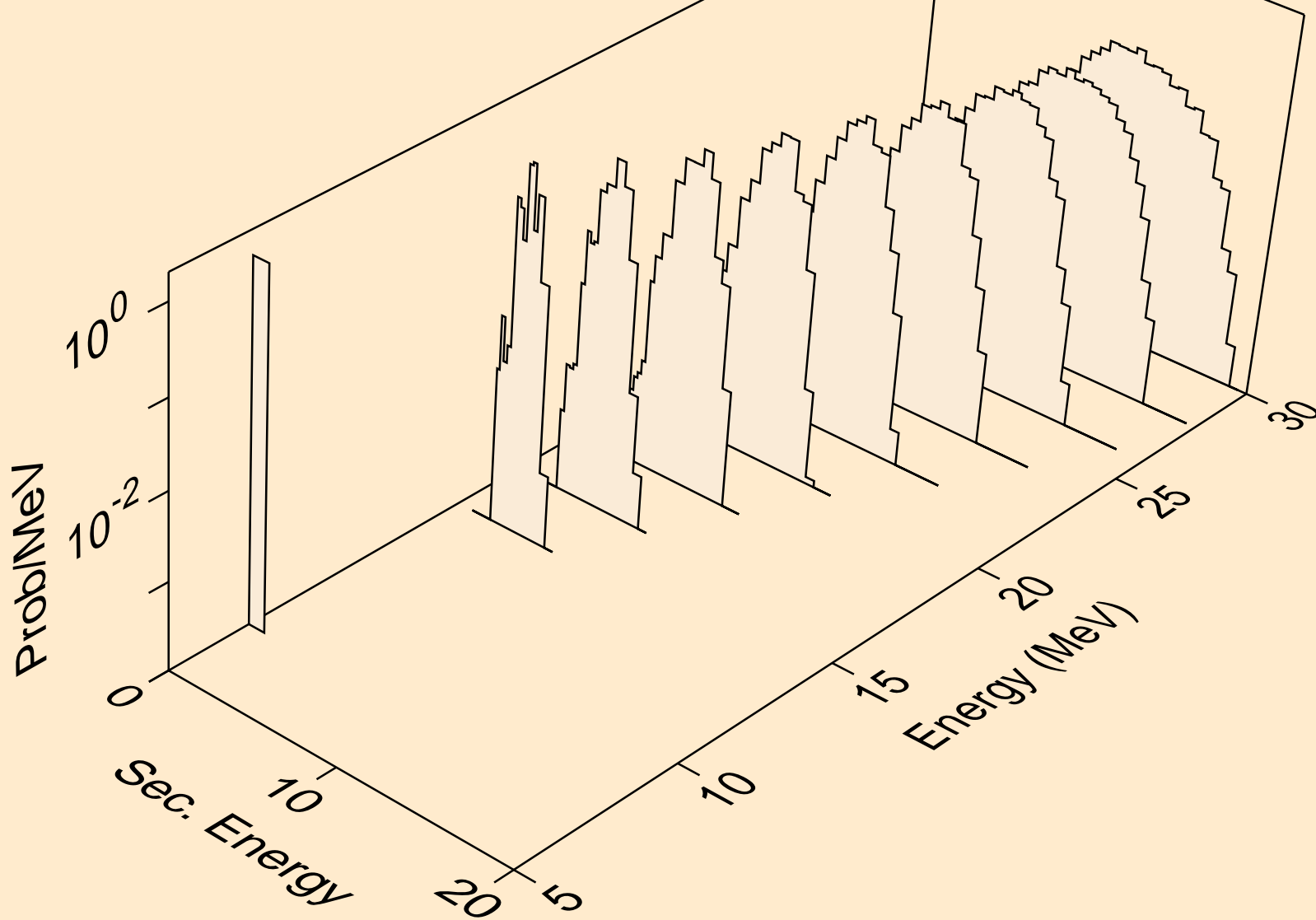
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



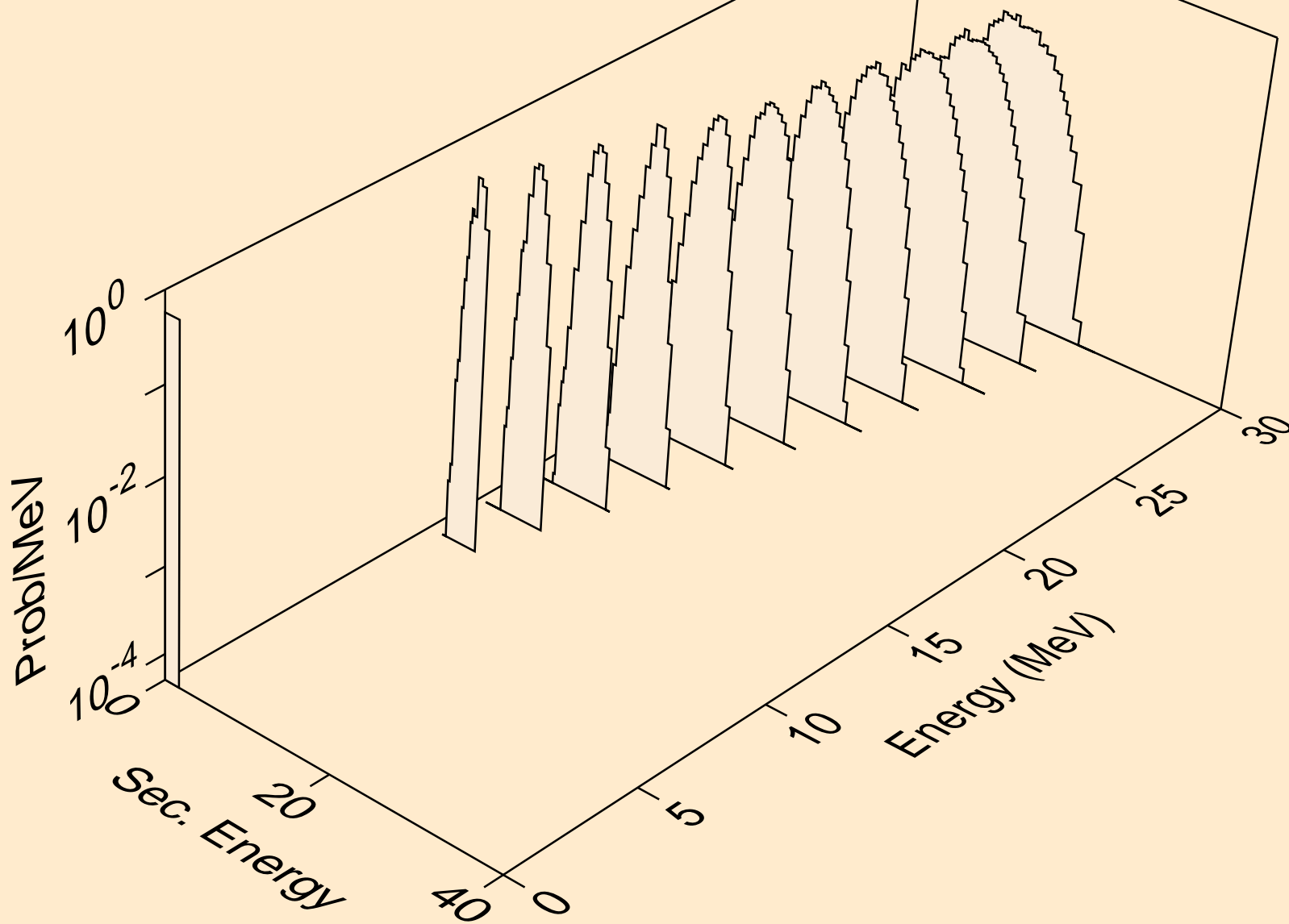
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)



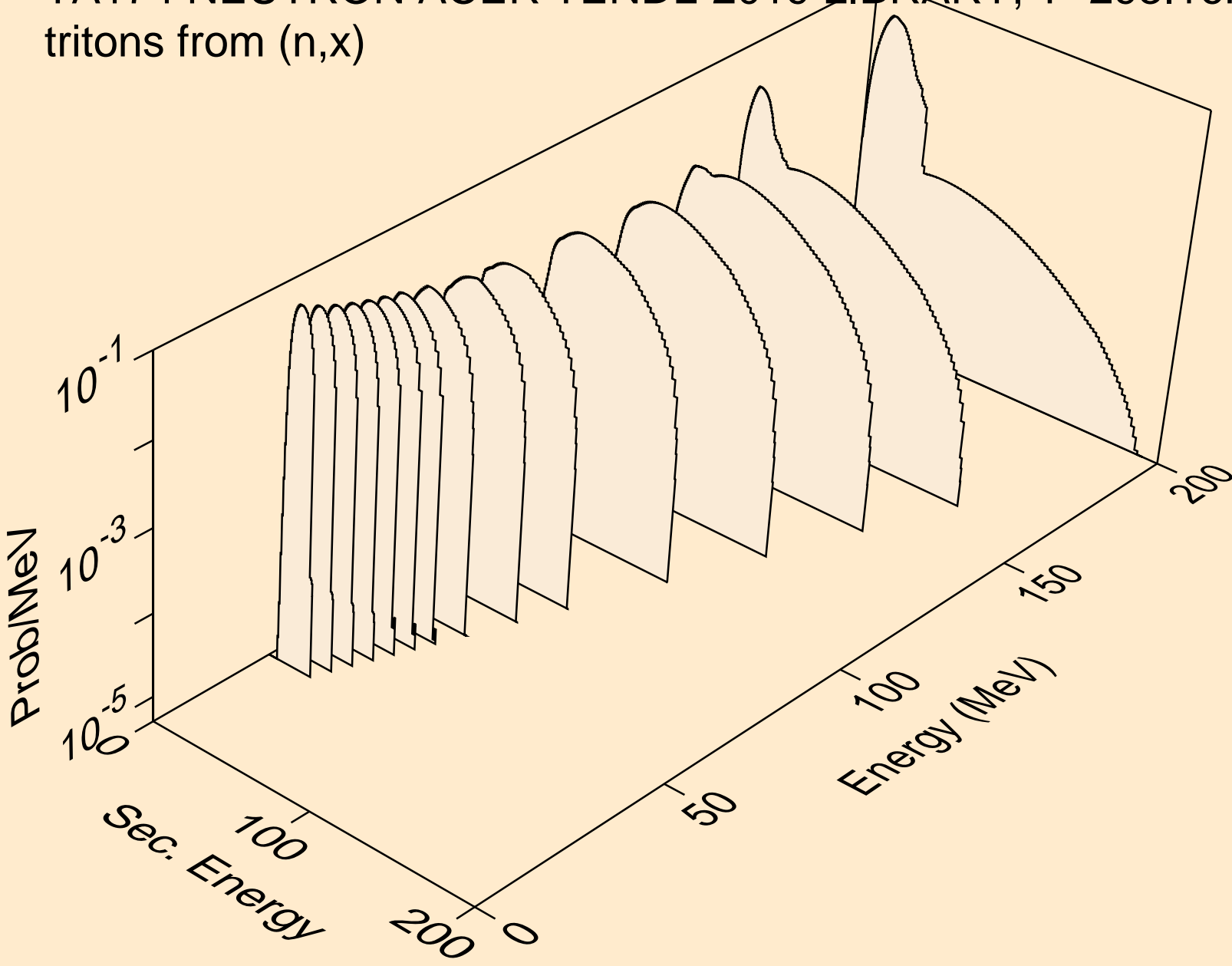
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)



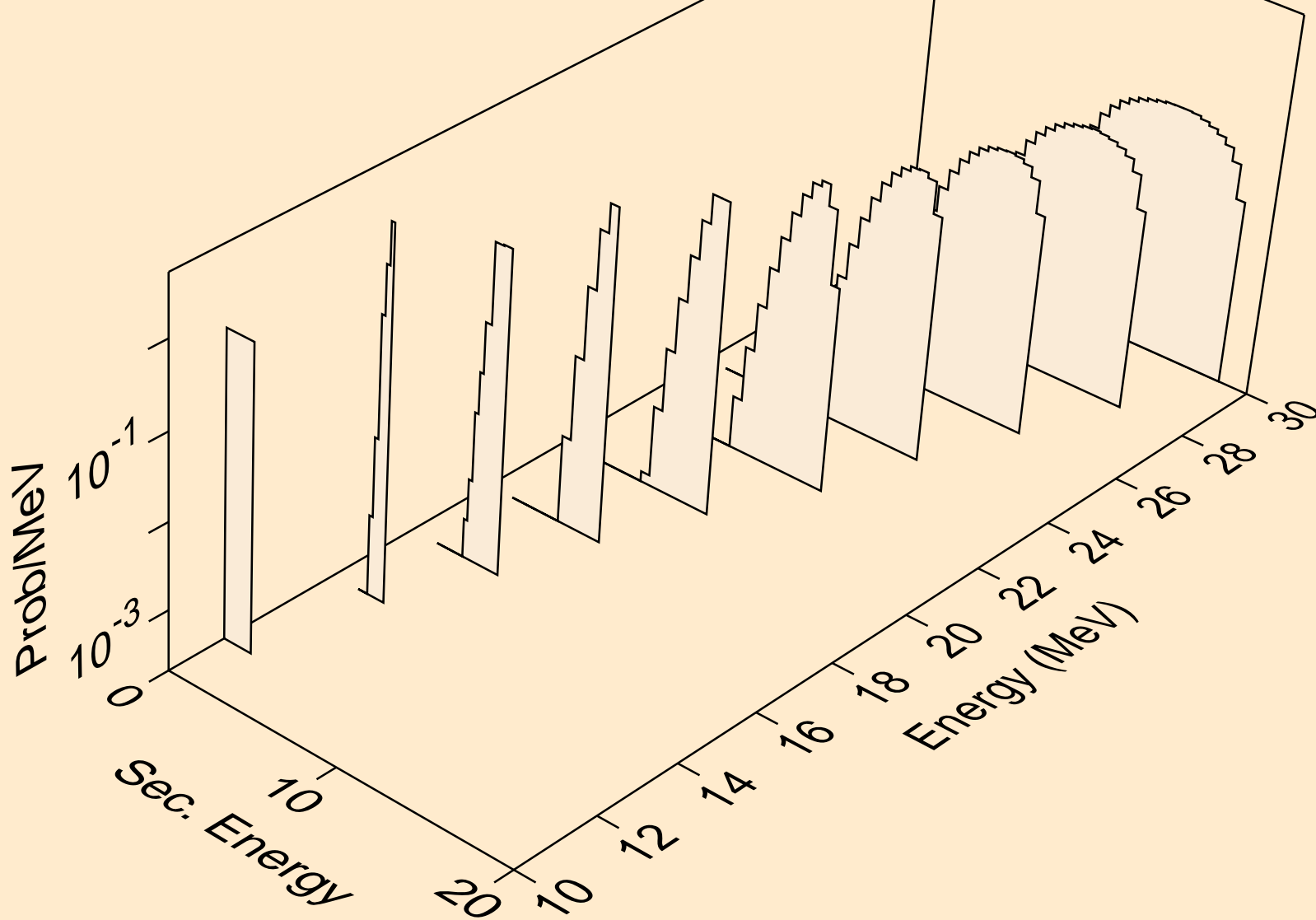
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,da)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)

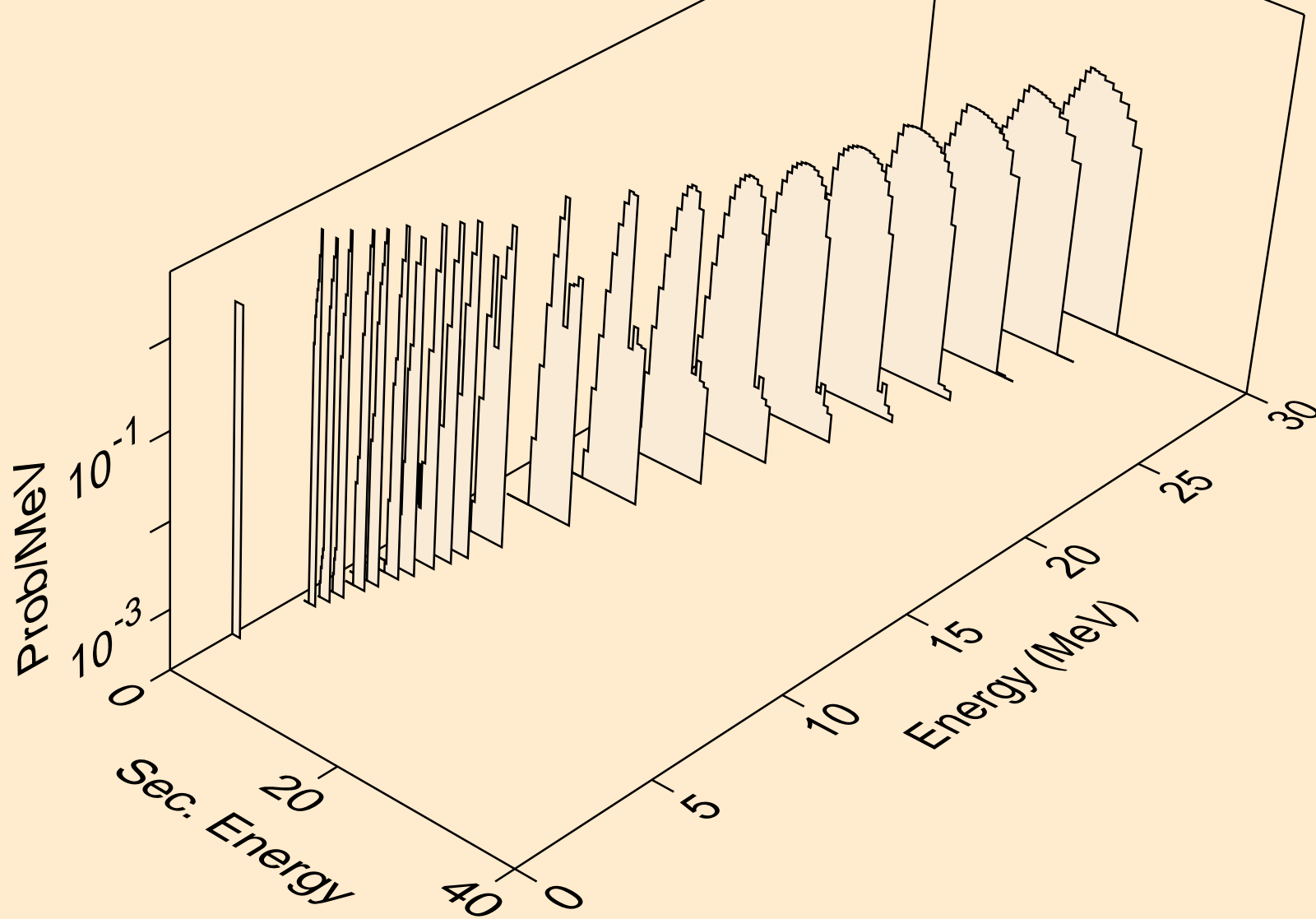


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t

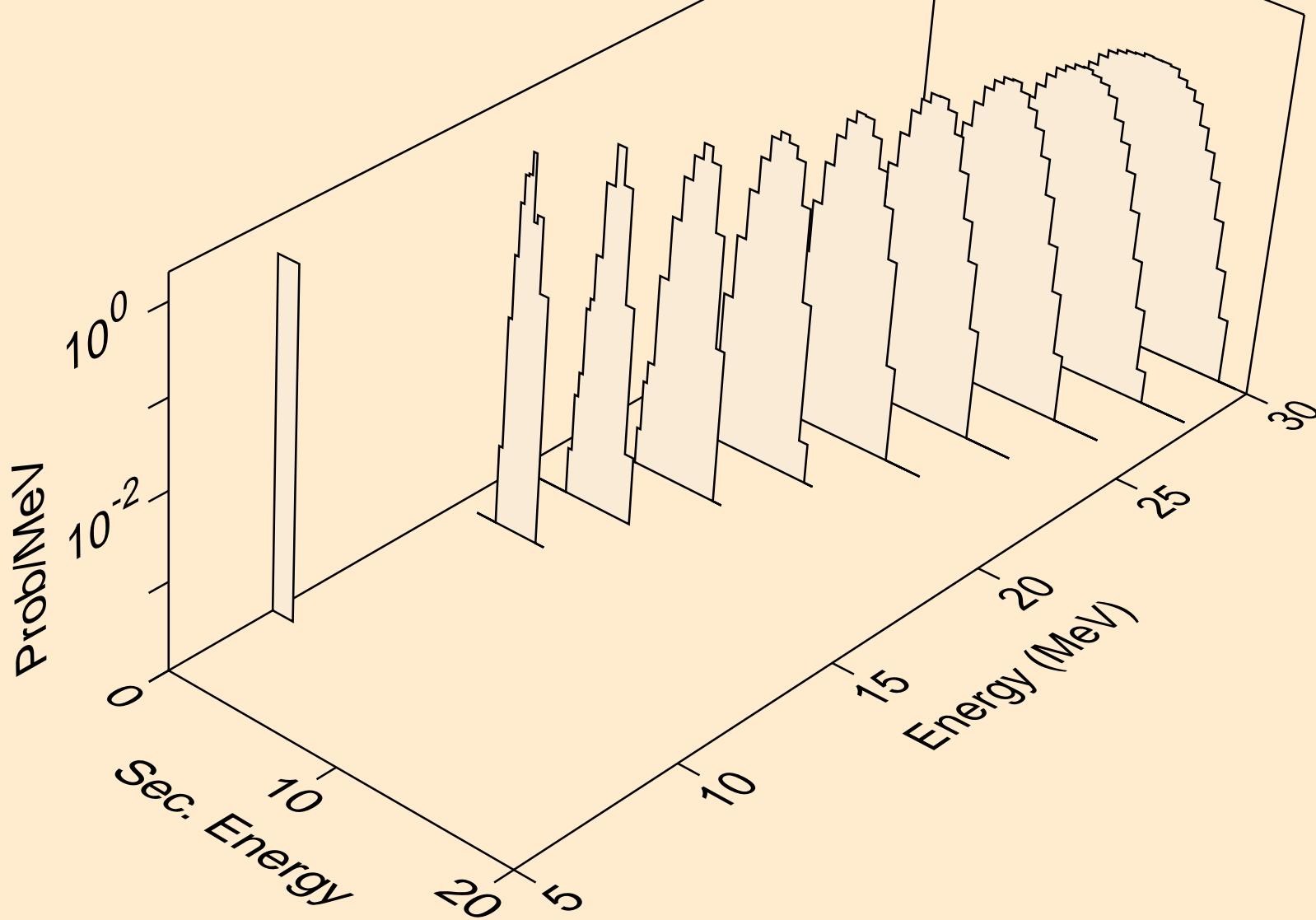




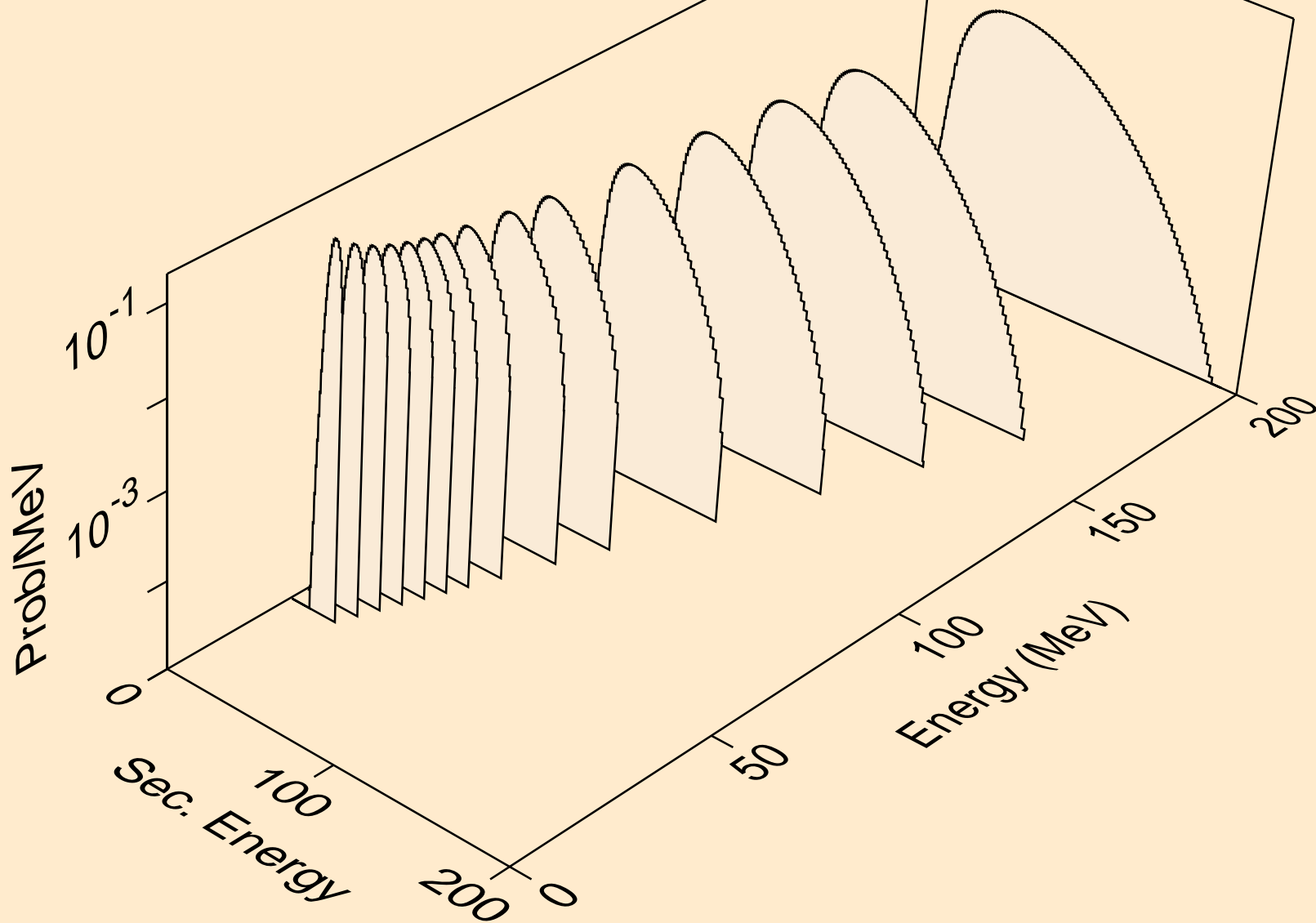
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



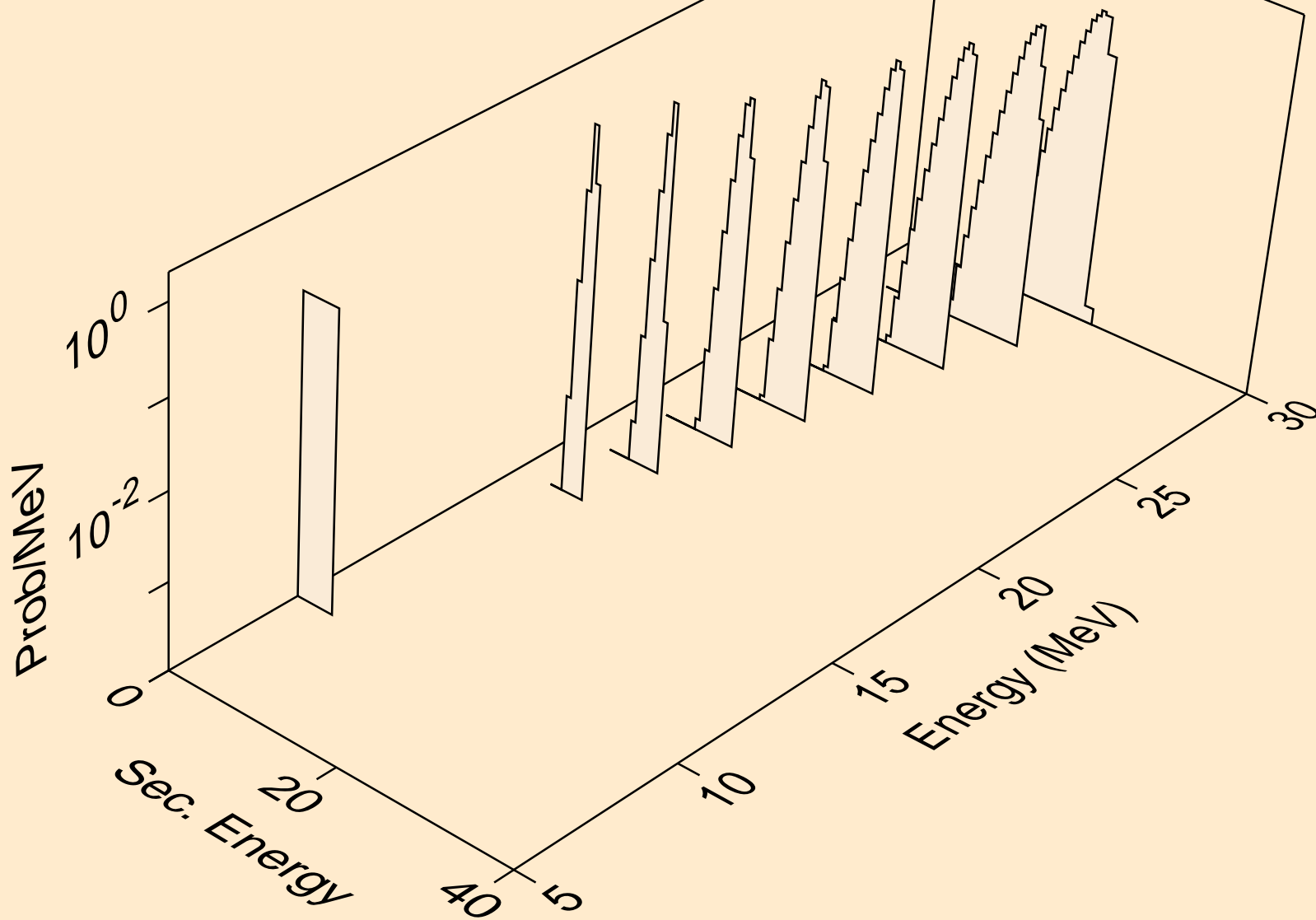
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,pt)



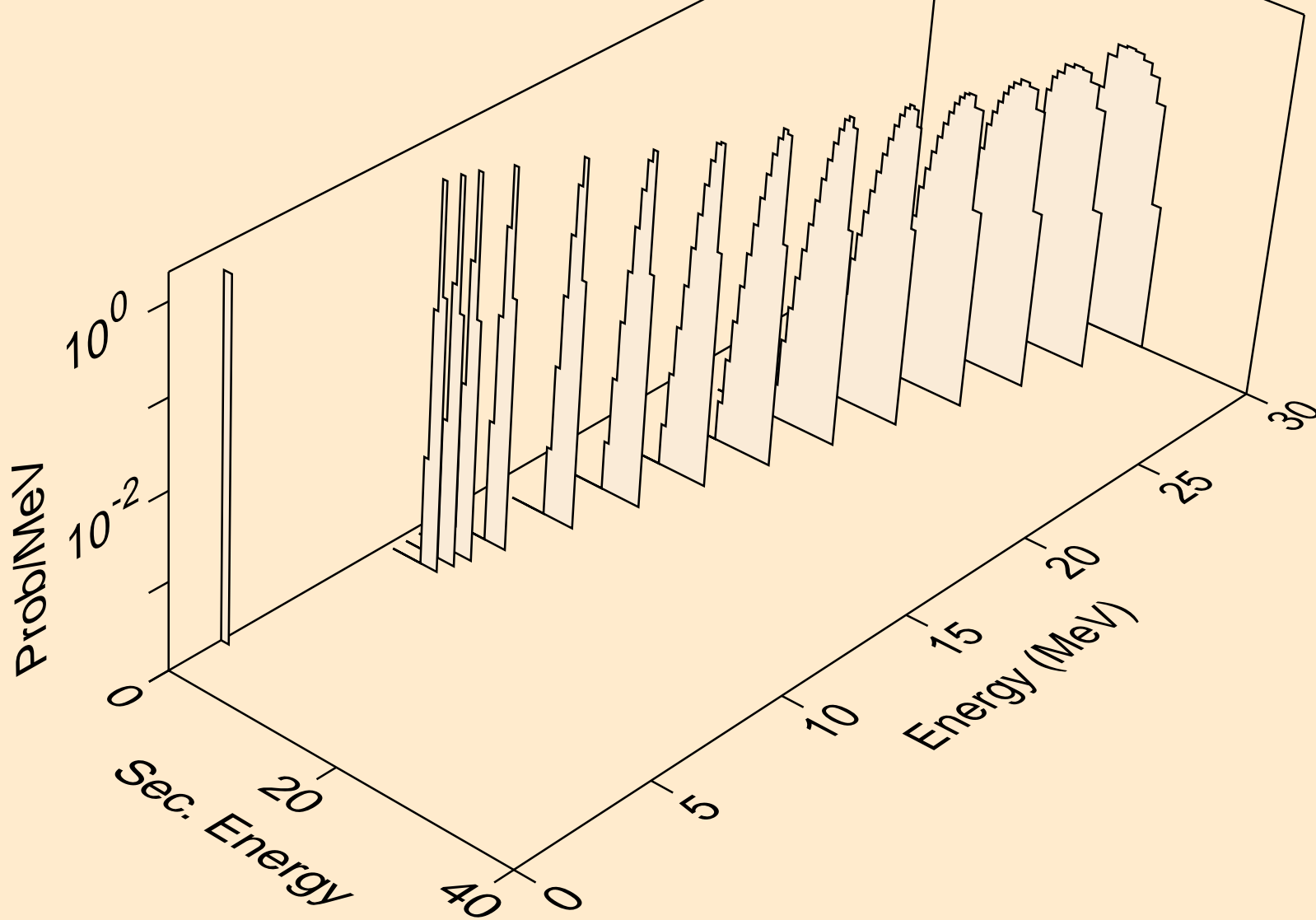
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)



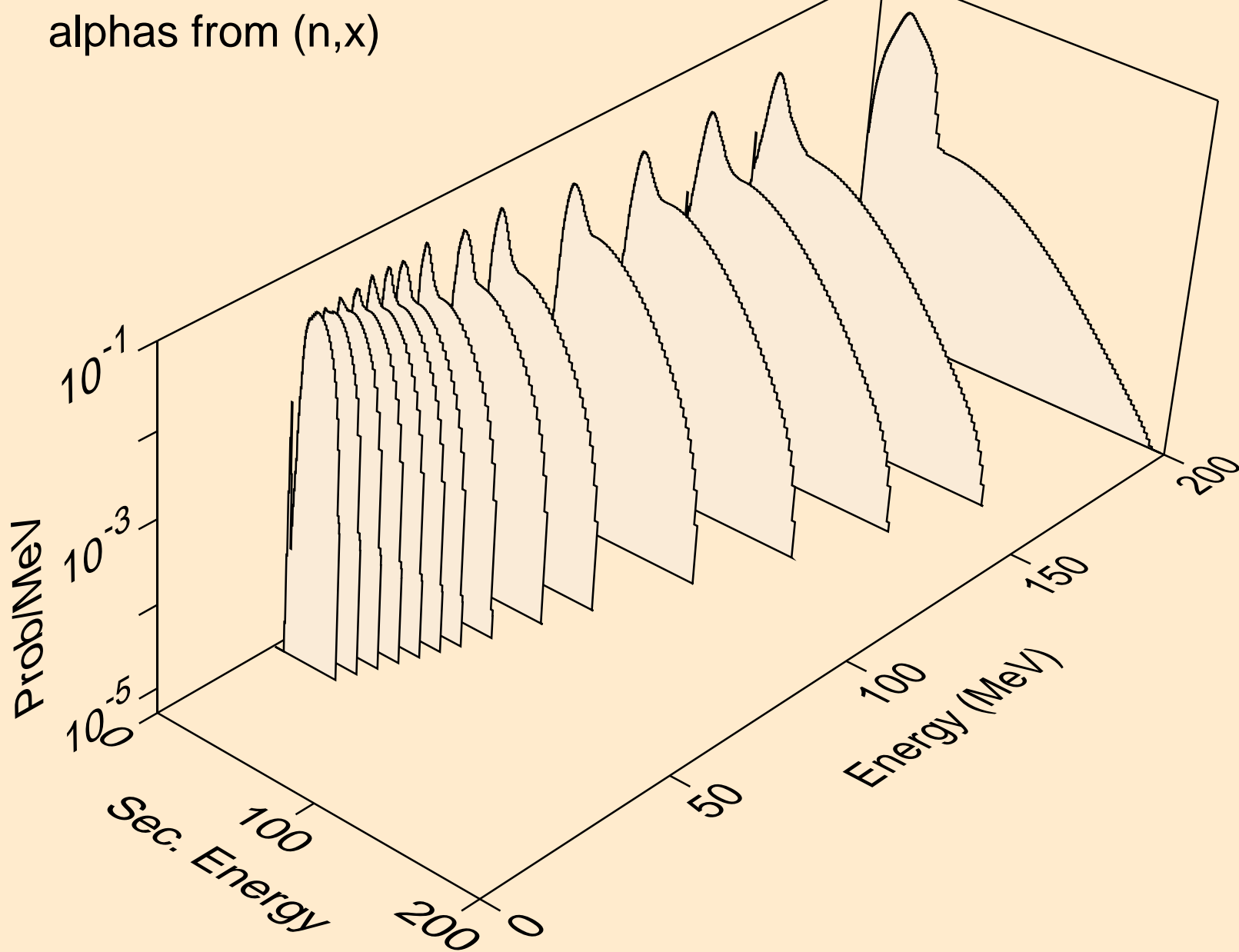
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



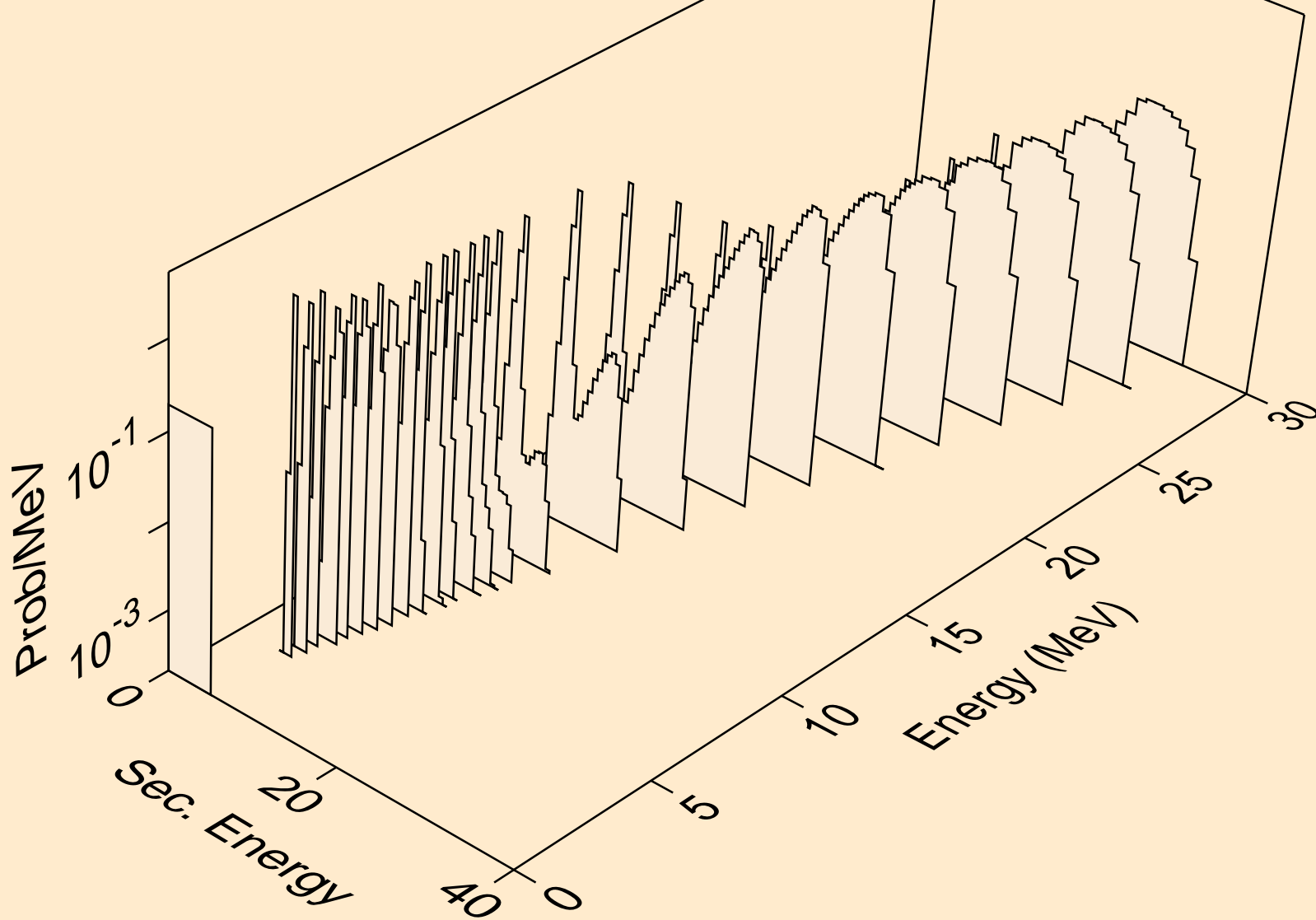
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)



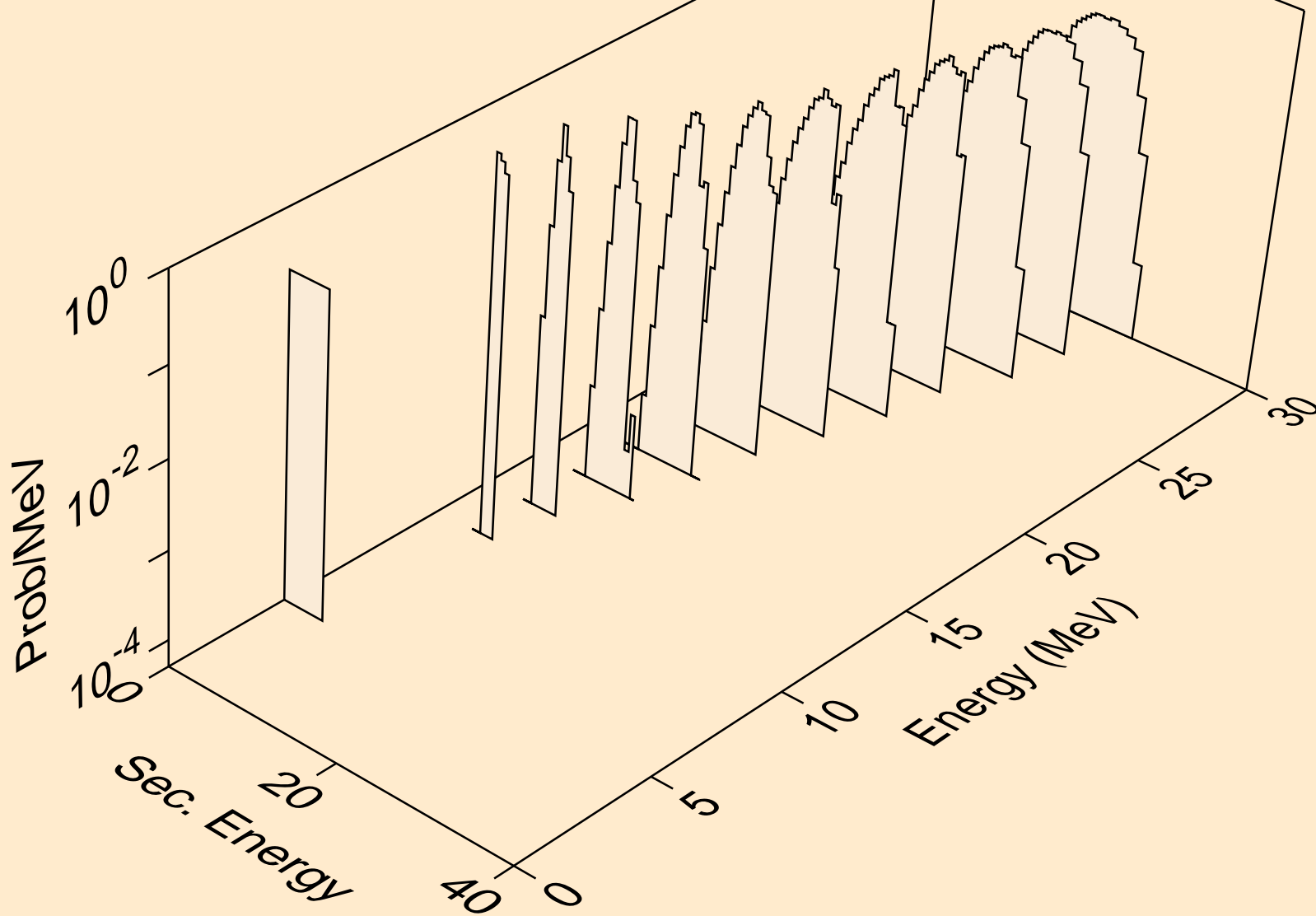
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

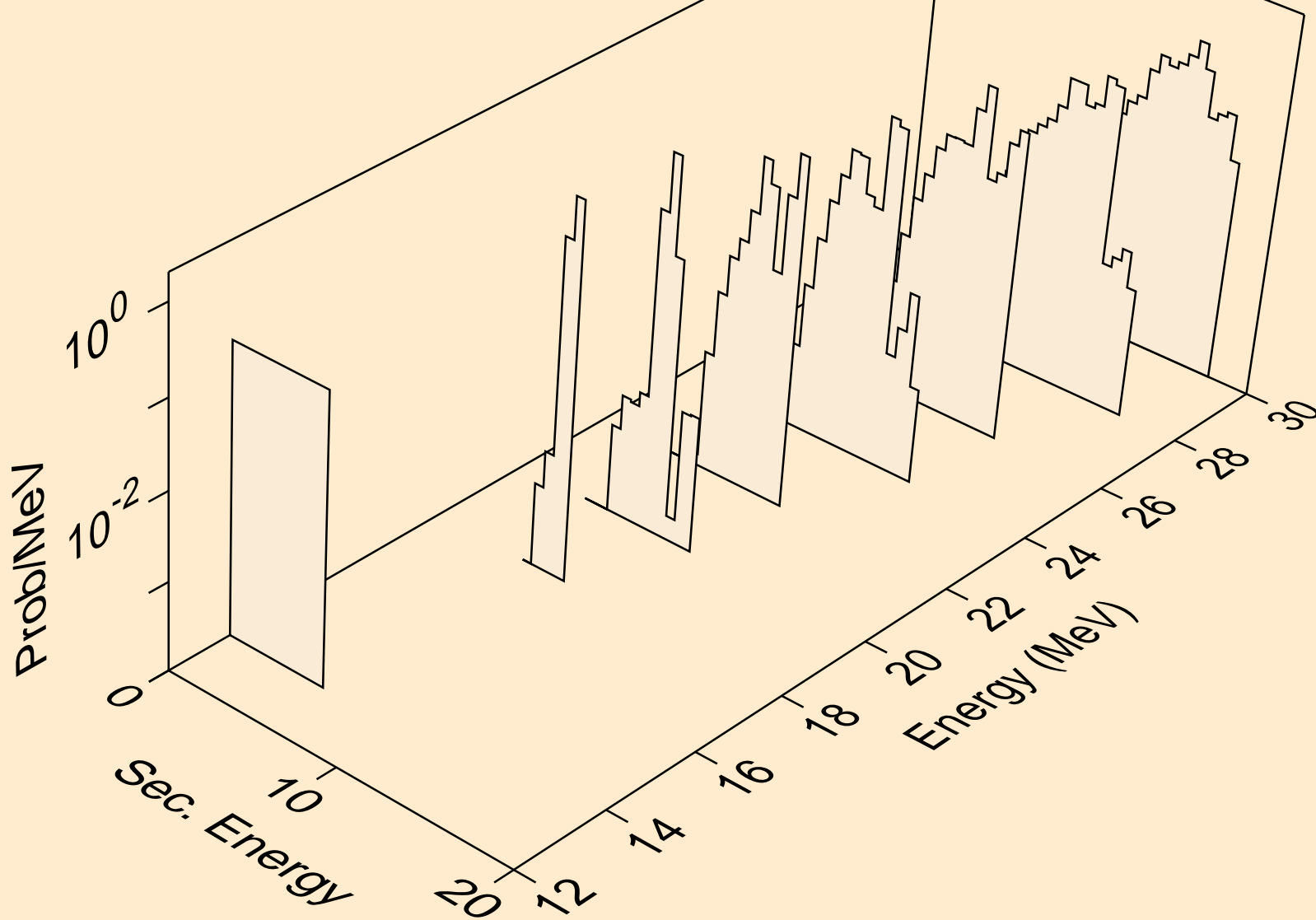


TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a

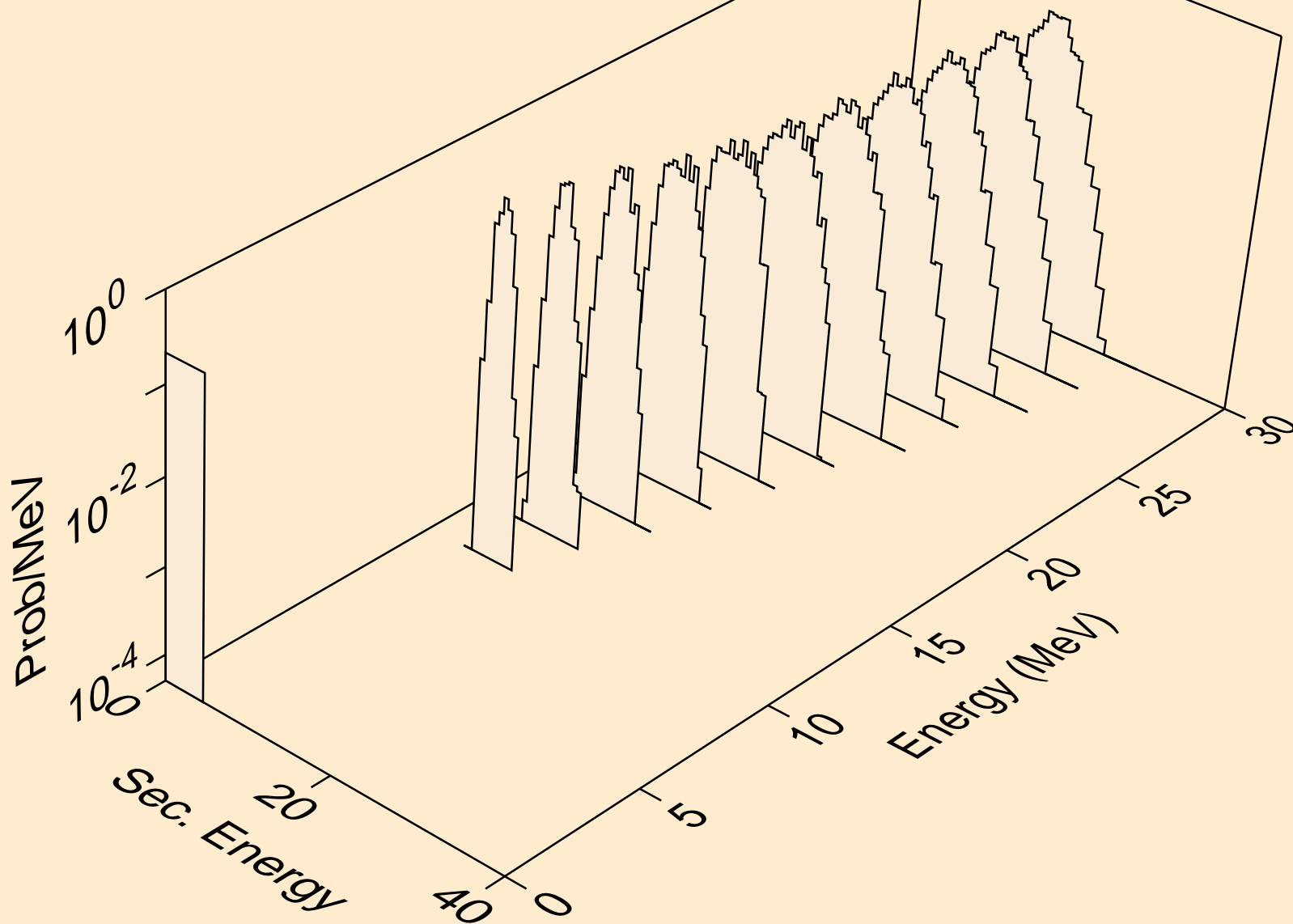




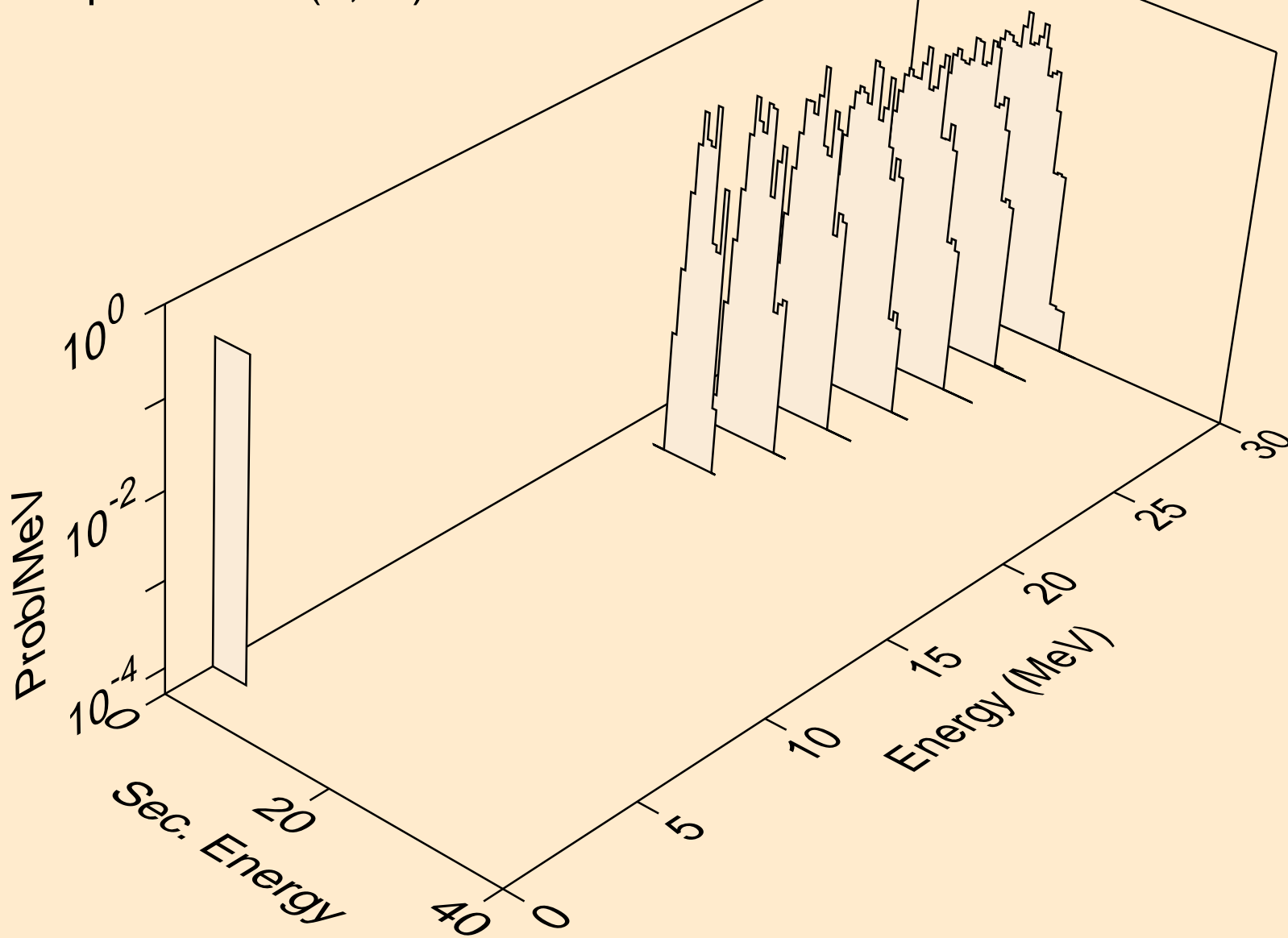
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



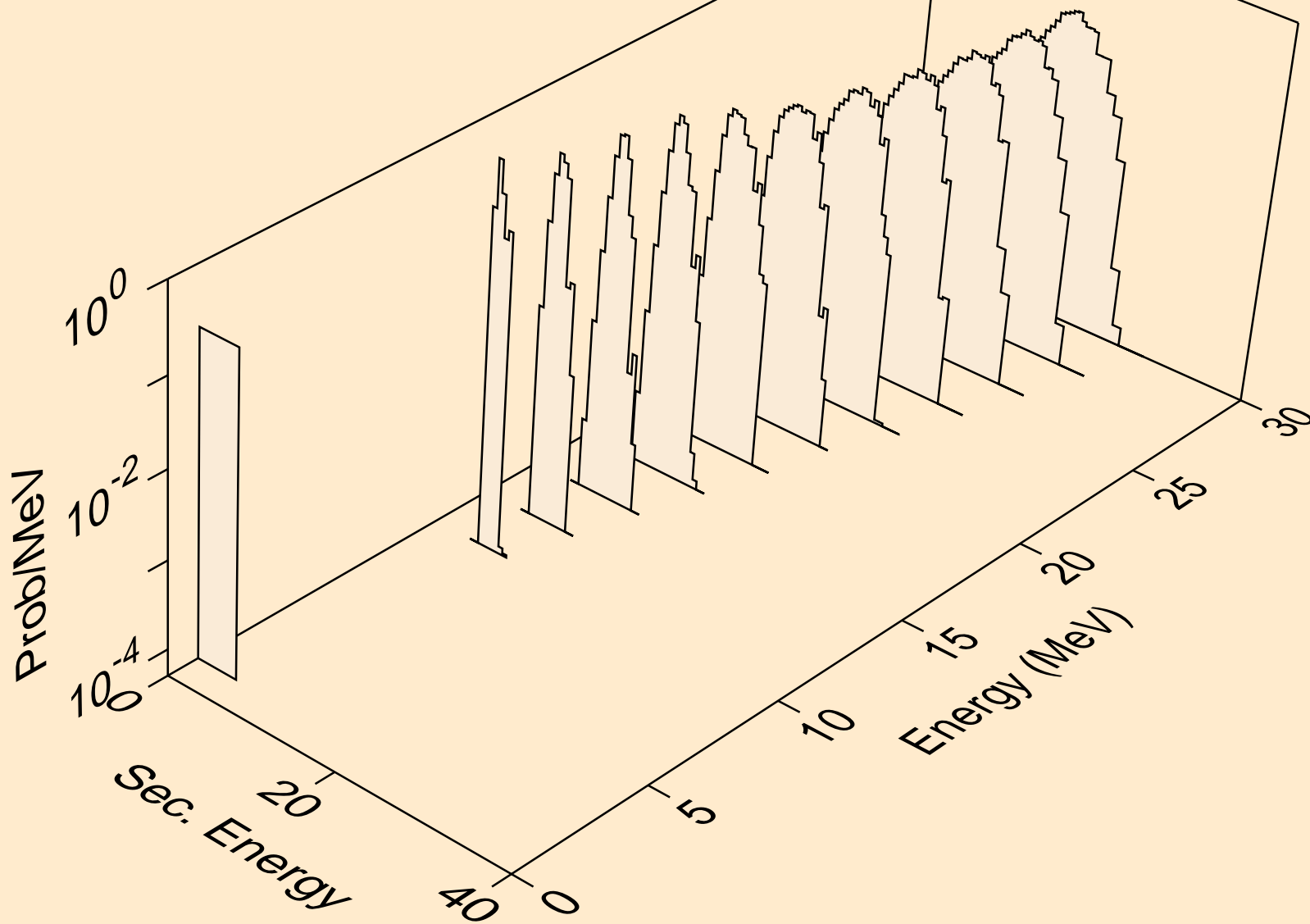
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



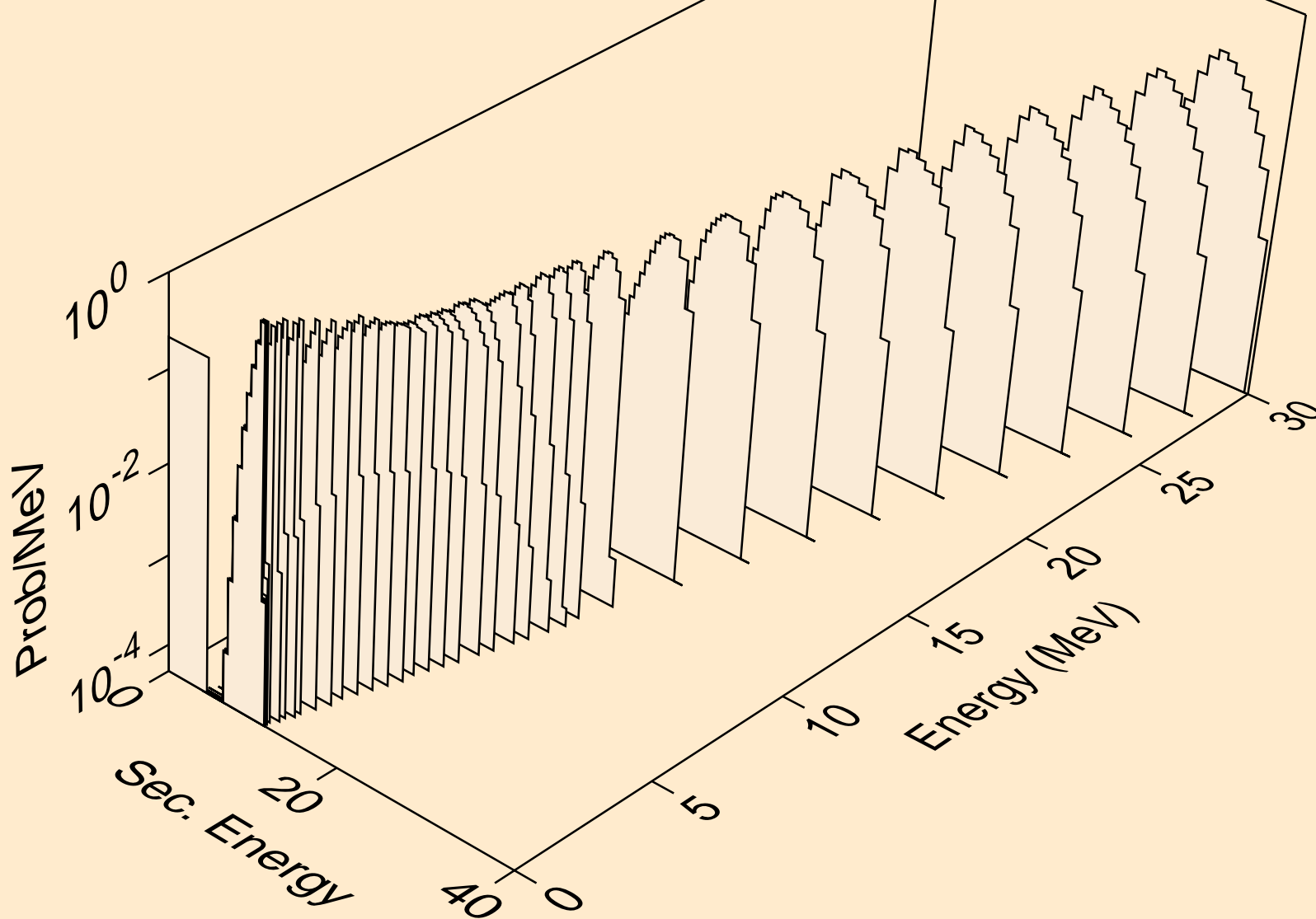
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)2a



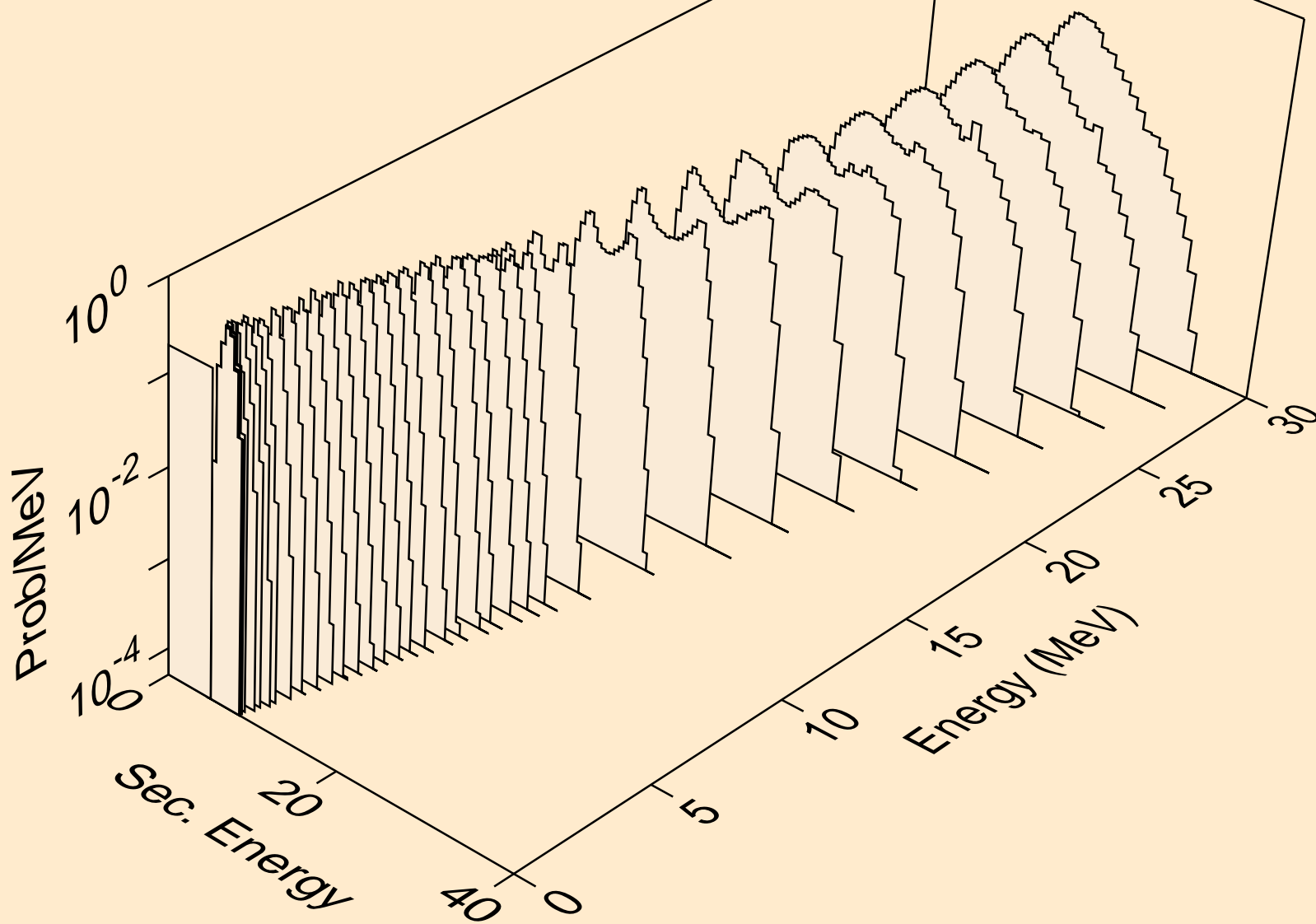
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



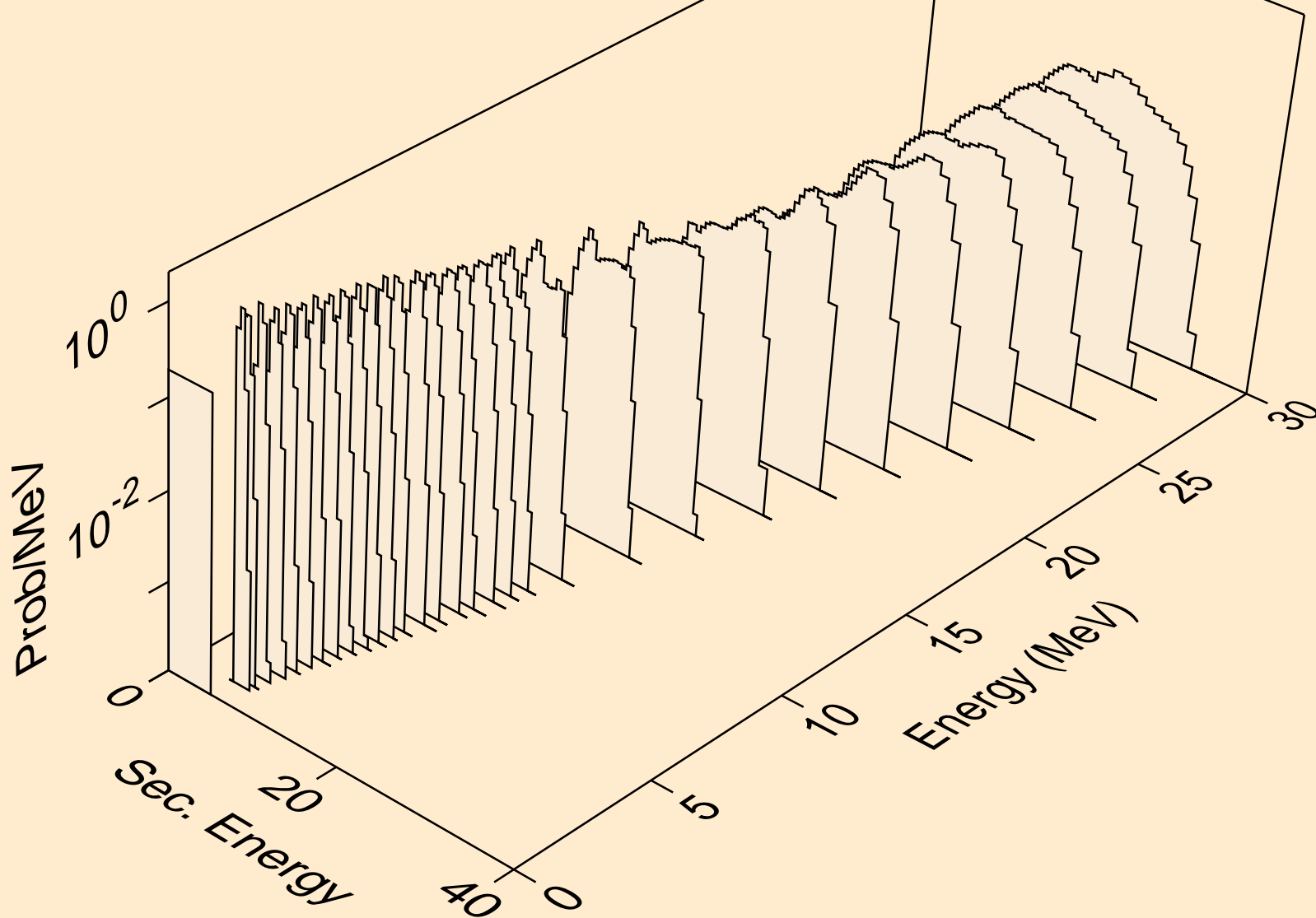
TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



TA174 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

